MISSOURI BOTANICAL GARDEN

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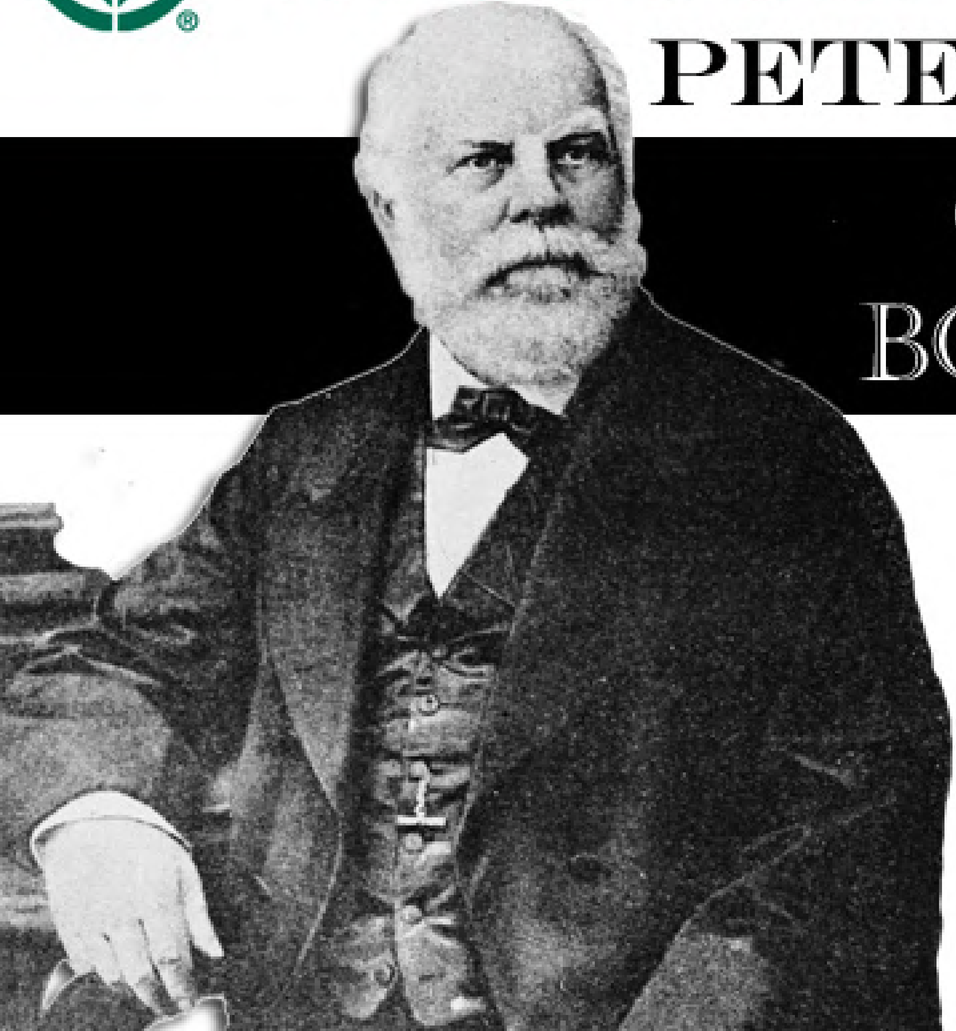

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1-10

160

Salicareae

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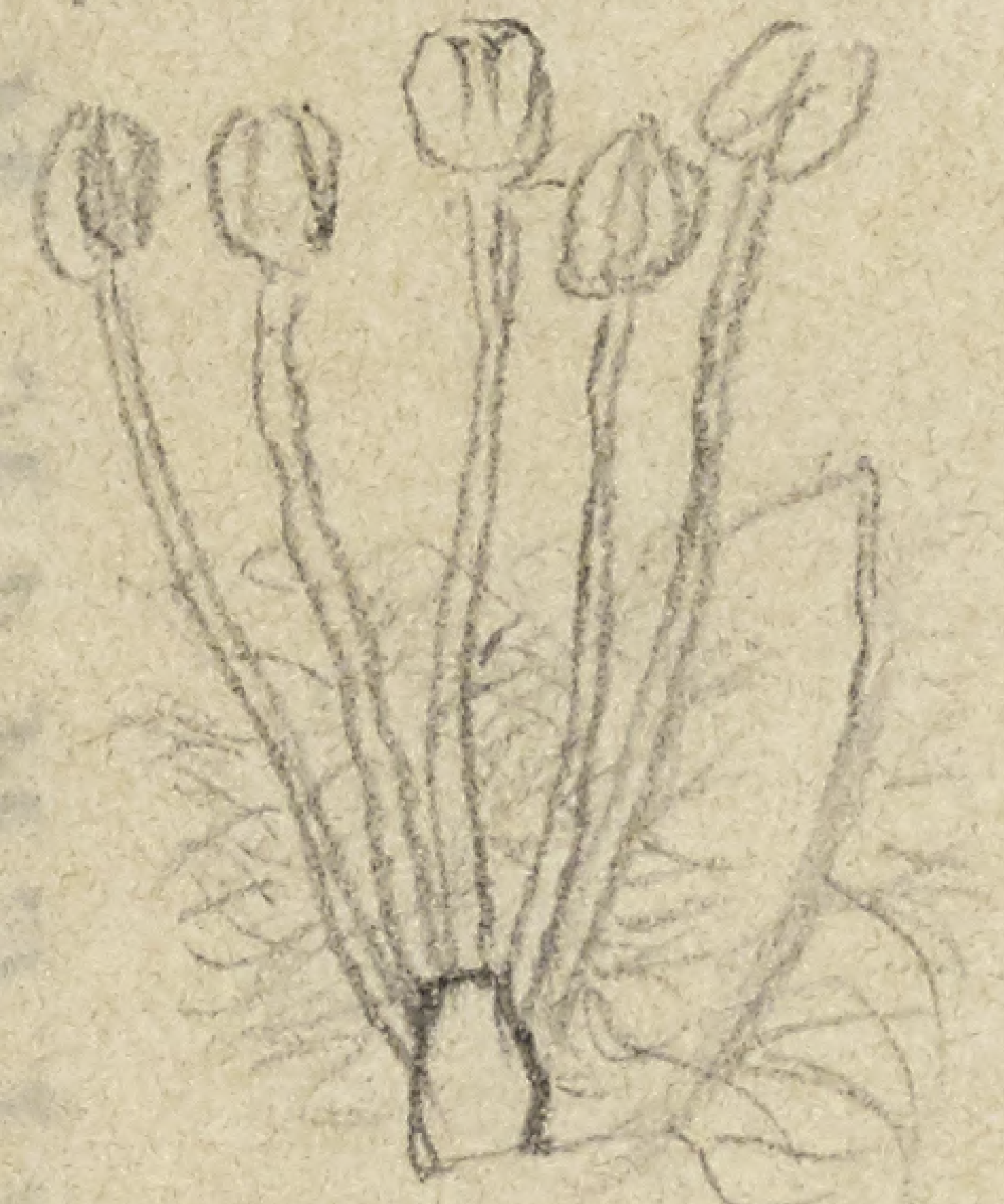
5791

Salix

d. Kuss' 1849



$\frac{6}{9}$ 75

4–5 stamens

filaments villous

in lower half

scale woolly below,

glabrous upwards

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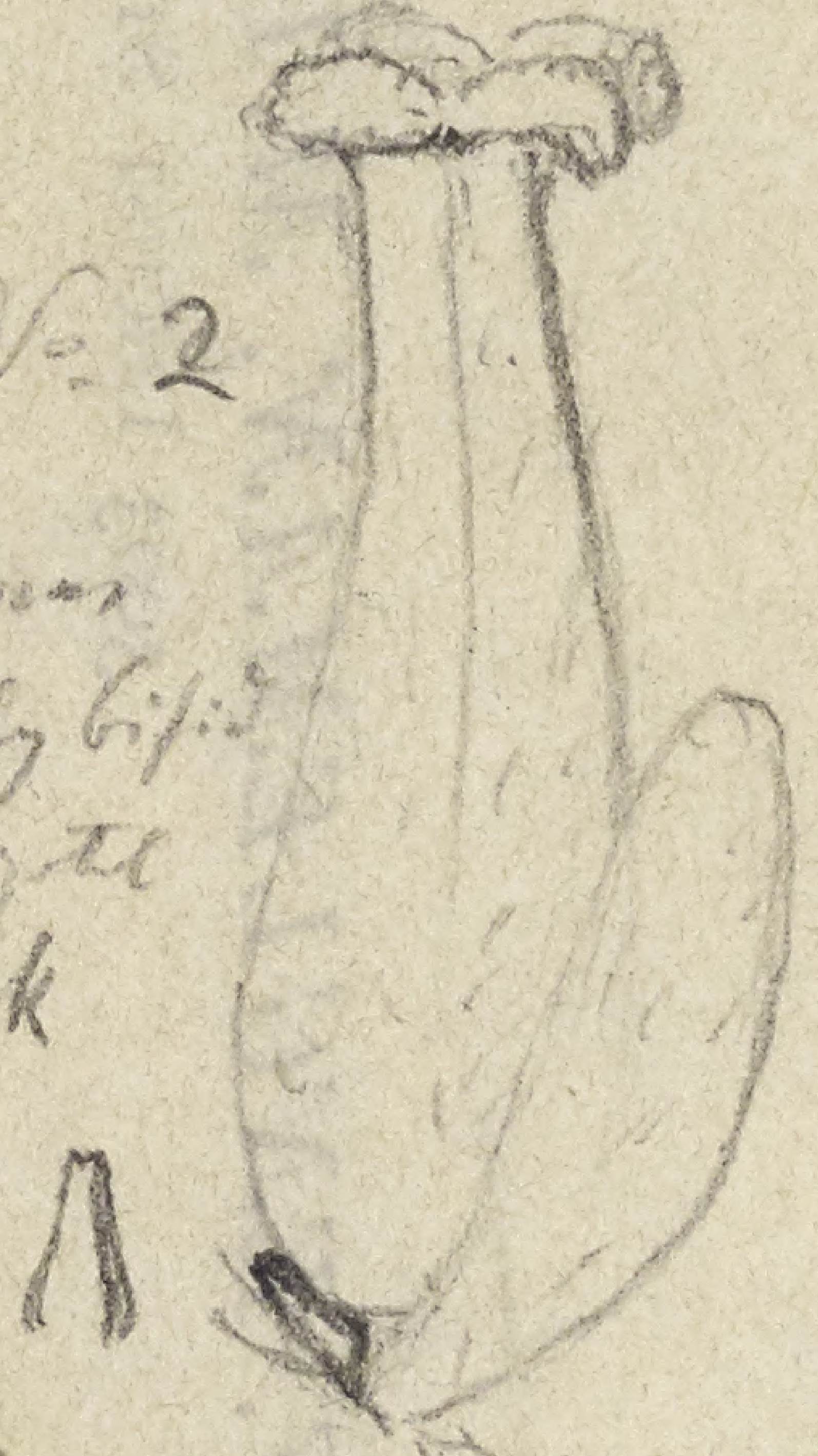
X 10 Salix Iowa Sept 4 1875

S. longifolia

No 2



stigmas deeply bifid horizontal thick

slightly hairy

stigmas bifid sessile, its branches horizontal

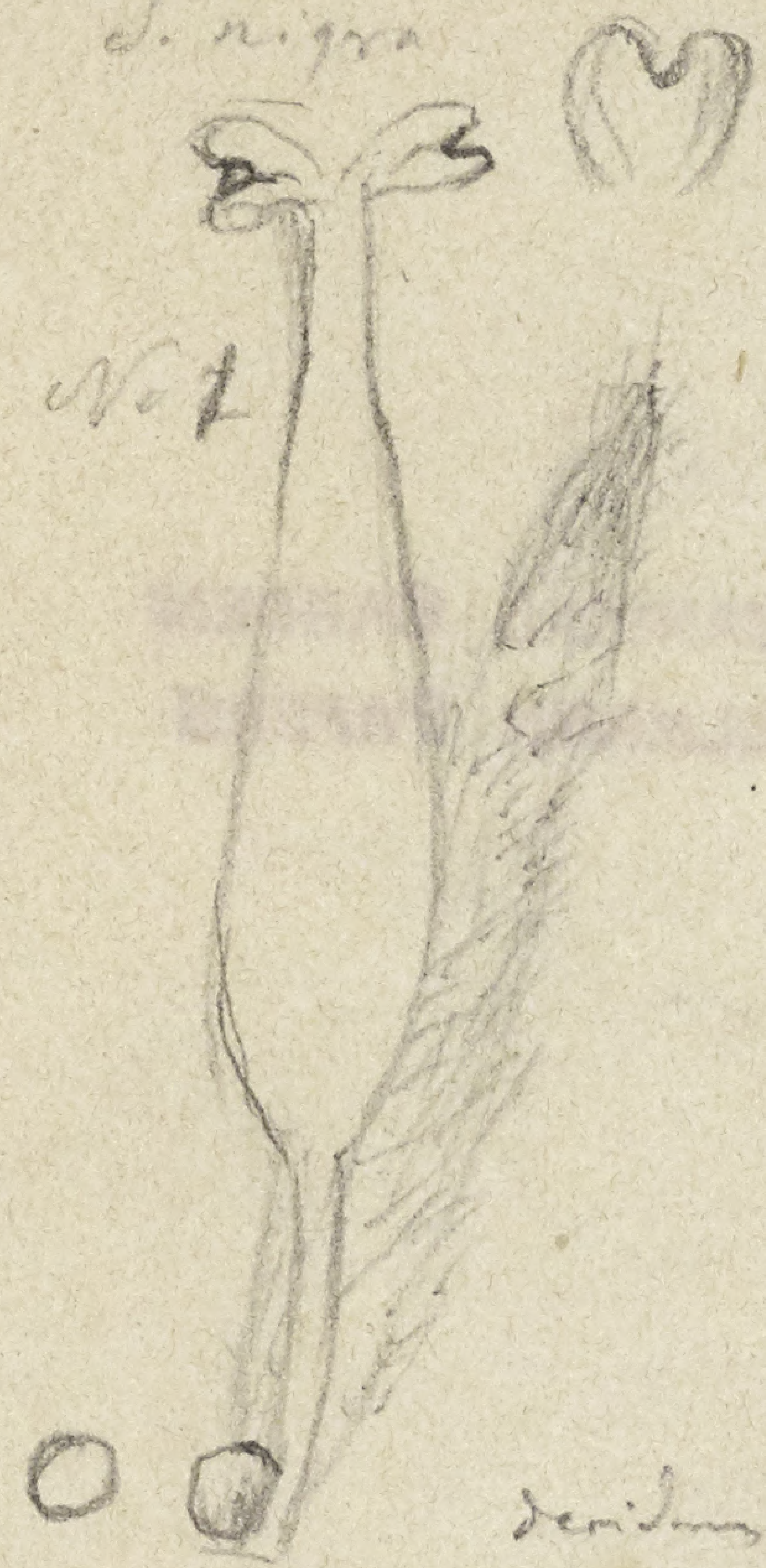
bract obtuse, shorter or longer membranous deciduous

ovary short pedicelled

gland ~~small~~, pointed

S. nigra

No 1



bract long lanceolate hairy deciduous

gland orbicular

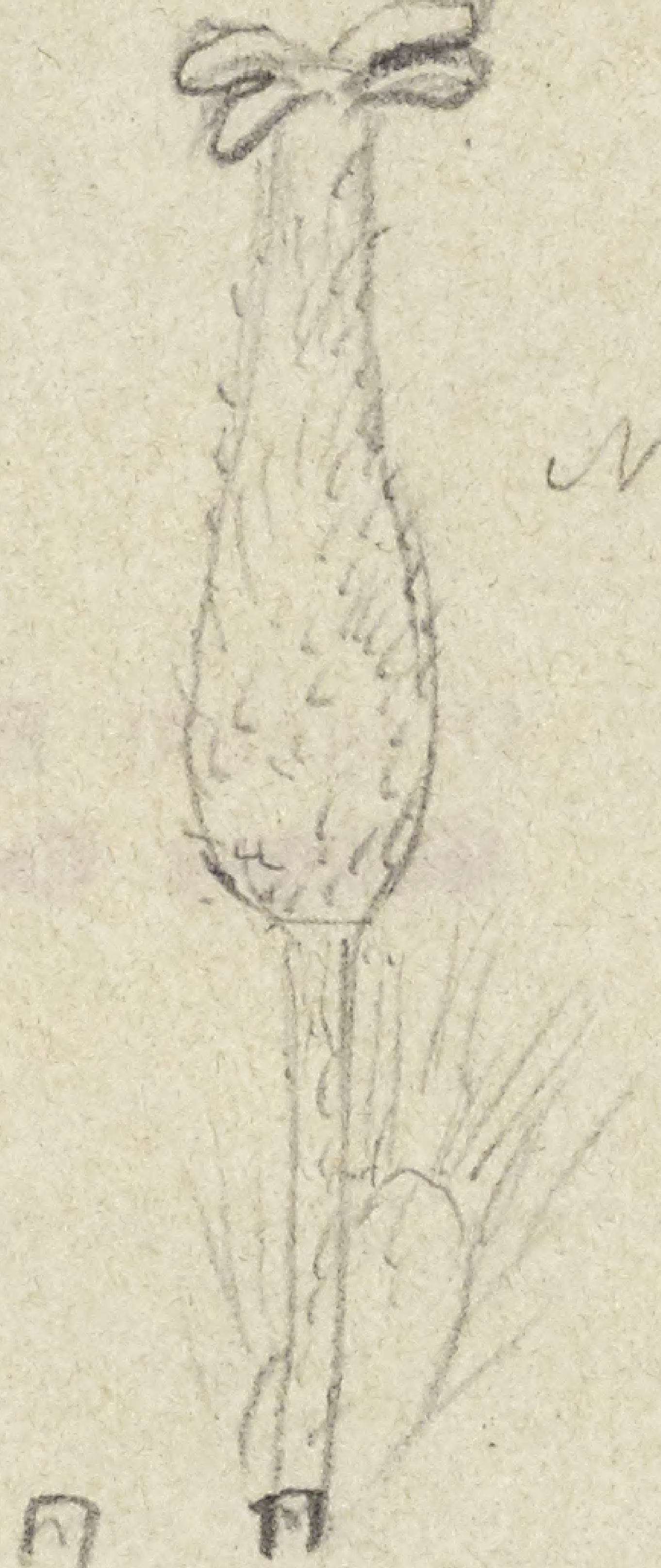
pedicel long

ovary slender glabrous tapering into a style

stigmas bifid

rostrate

No 5



bract shorter than pedicel obtuse, long hairy

pedicel almost as long as small tomentose ovary; gland small ~~[illegible]~~ square, not longer than the breadth of pedicel

stigmas horizont bifid

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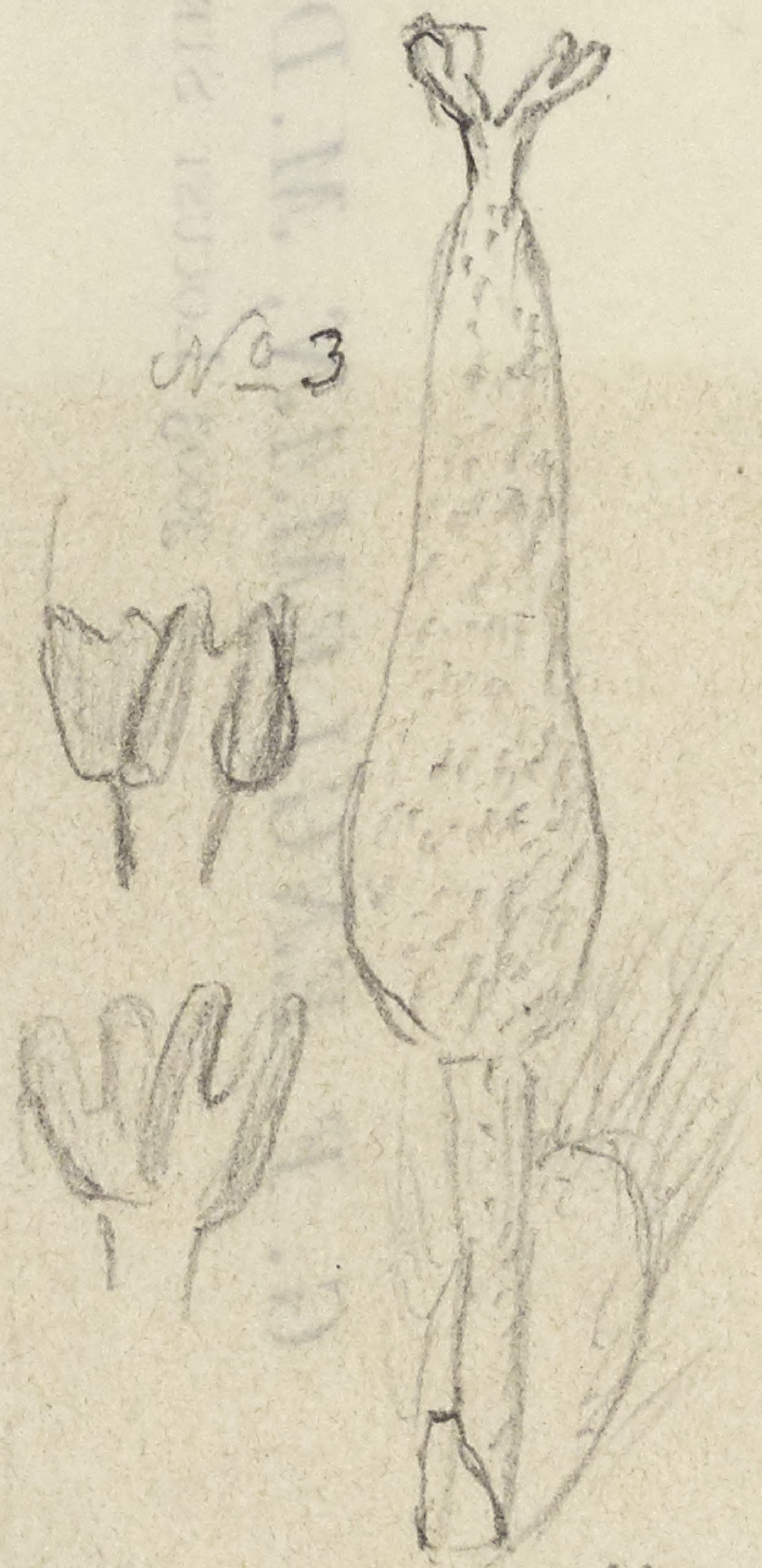
Salix Iowa Sept 4 1875

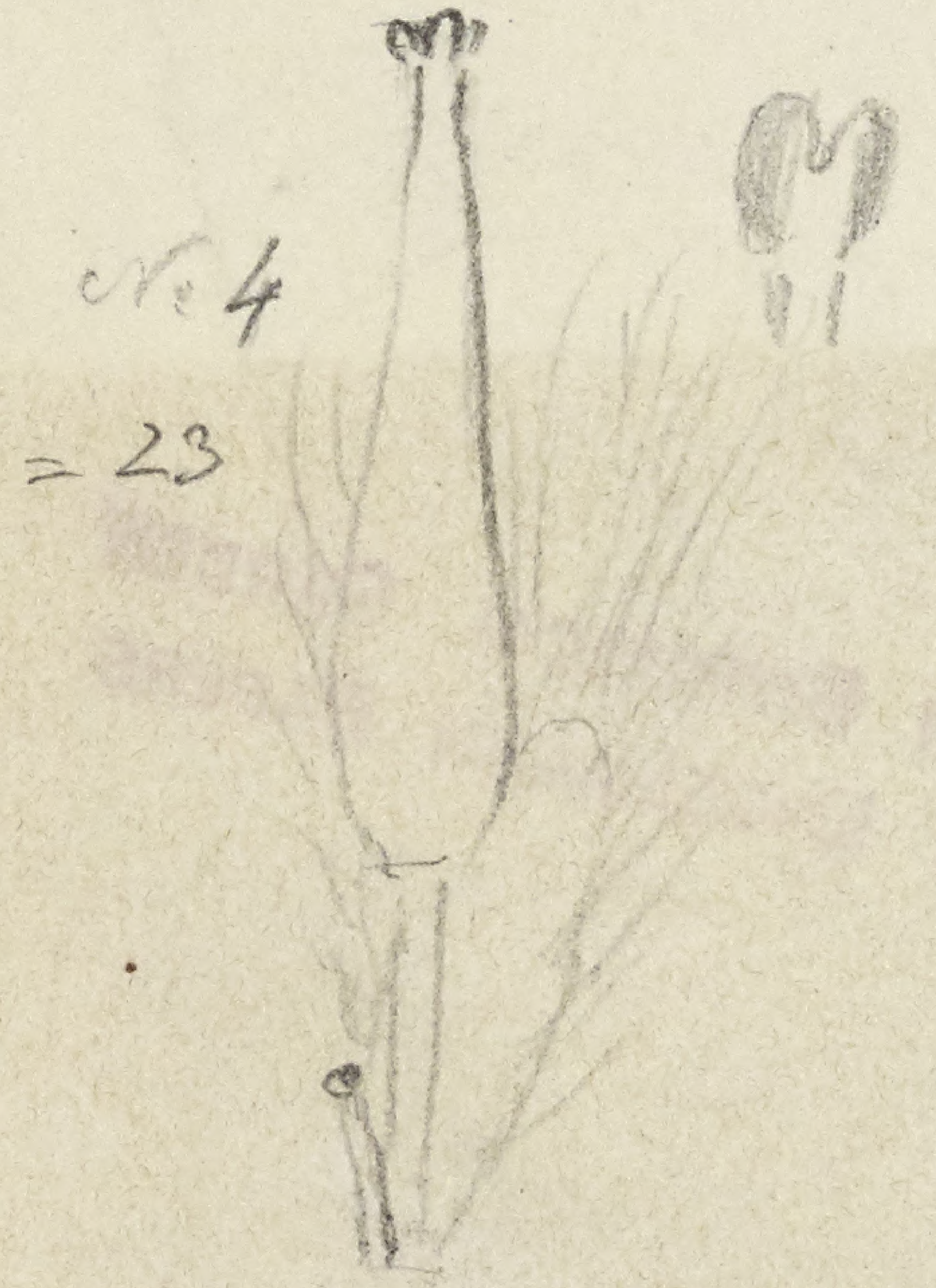
x10 petiolaris

S. cordata Muhl.

S. humilis Marsh

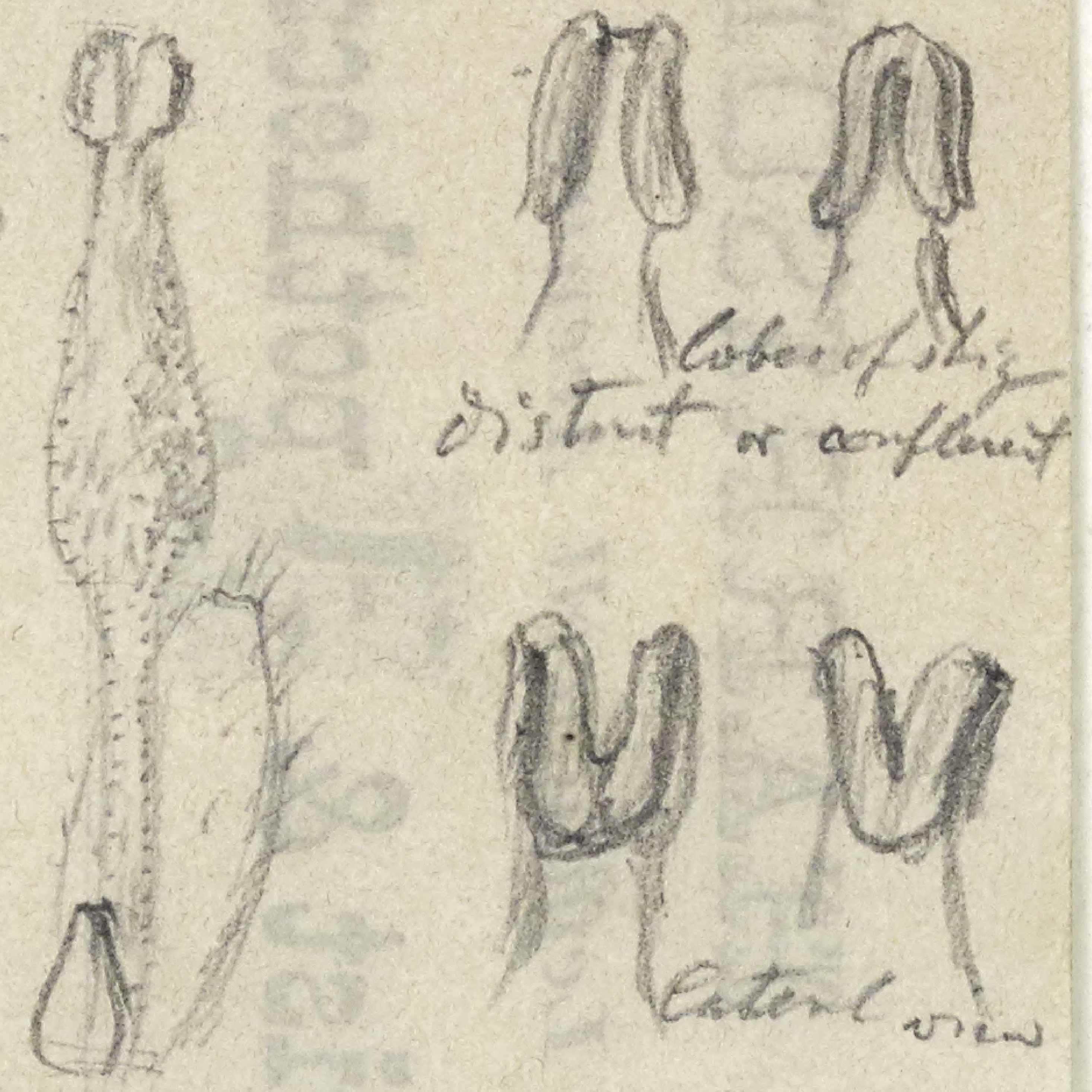


No 3



No 4

= 23



No 6

dorsal view

lobes of stig distinct or confluent

lateral view

bract shorter than pedicel
obtuse, long bearded
gland long flat pointed,
ovary twice as long as pedicel canescent
style — stigmas bifid , petiolaris

bract longer than pedicel
obtuse long bearded
gland filiform, capitate
ovary not twice as long
as pedicel
naked — style —
very short erect bifid
stigm.

bract, pedicel and ovary
of about same length.
bract obtuse short bearded
gland long flat obtuse pointed
stigmas 2 undivided
erect.

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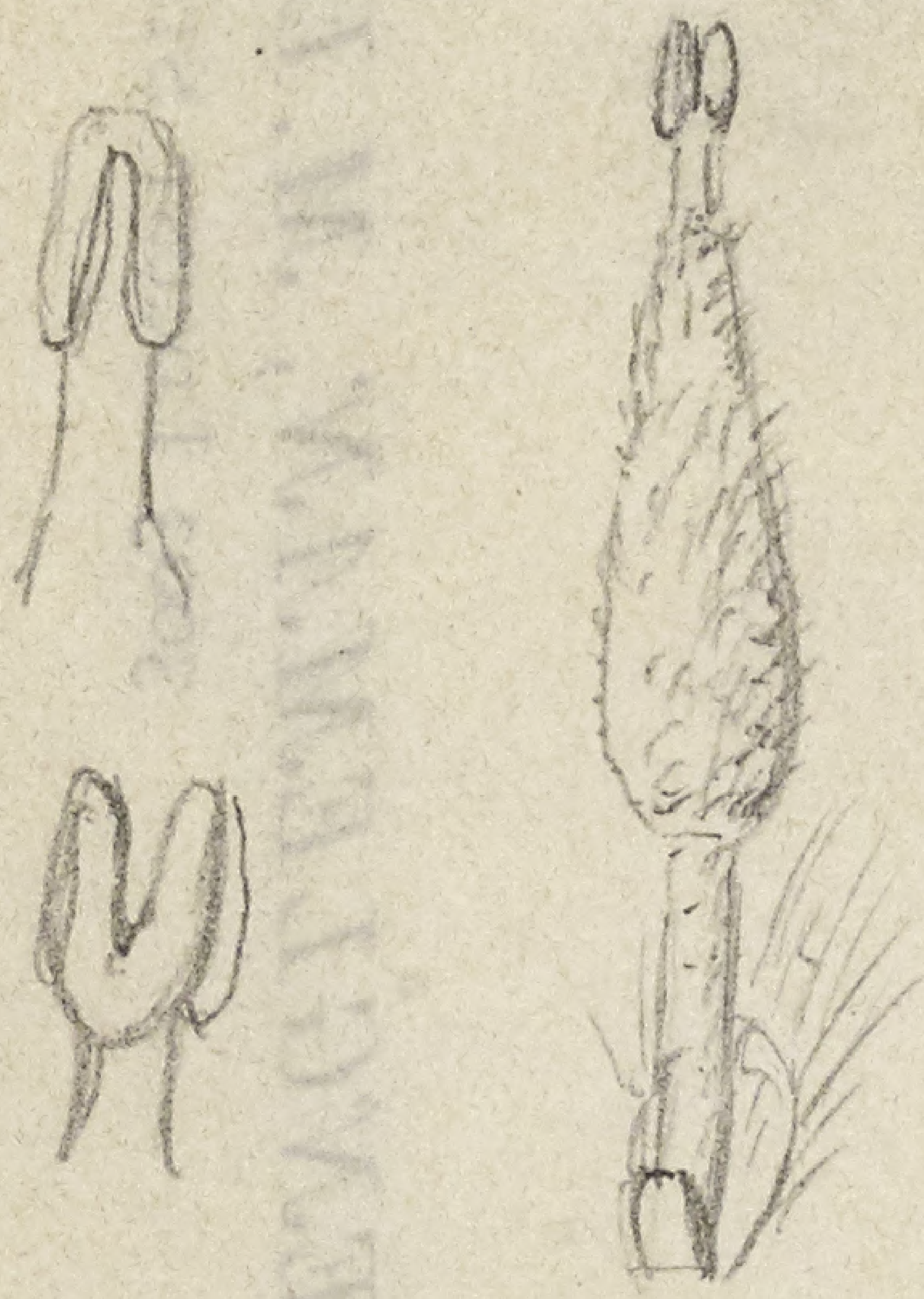
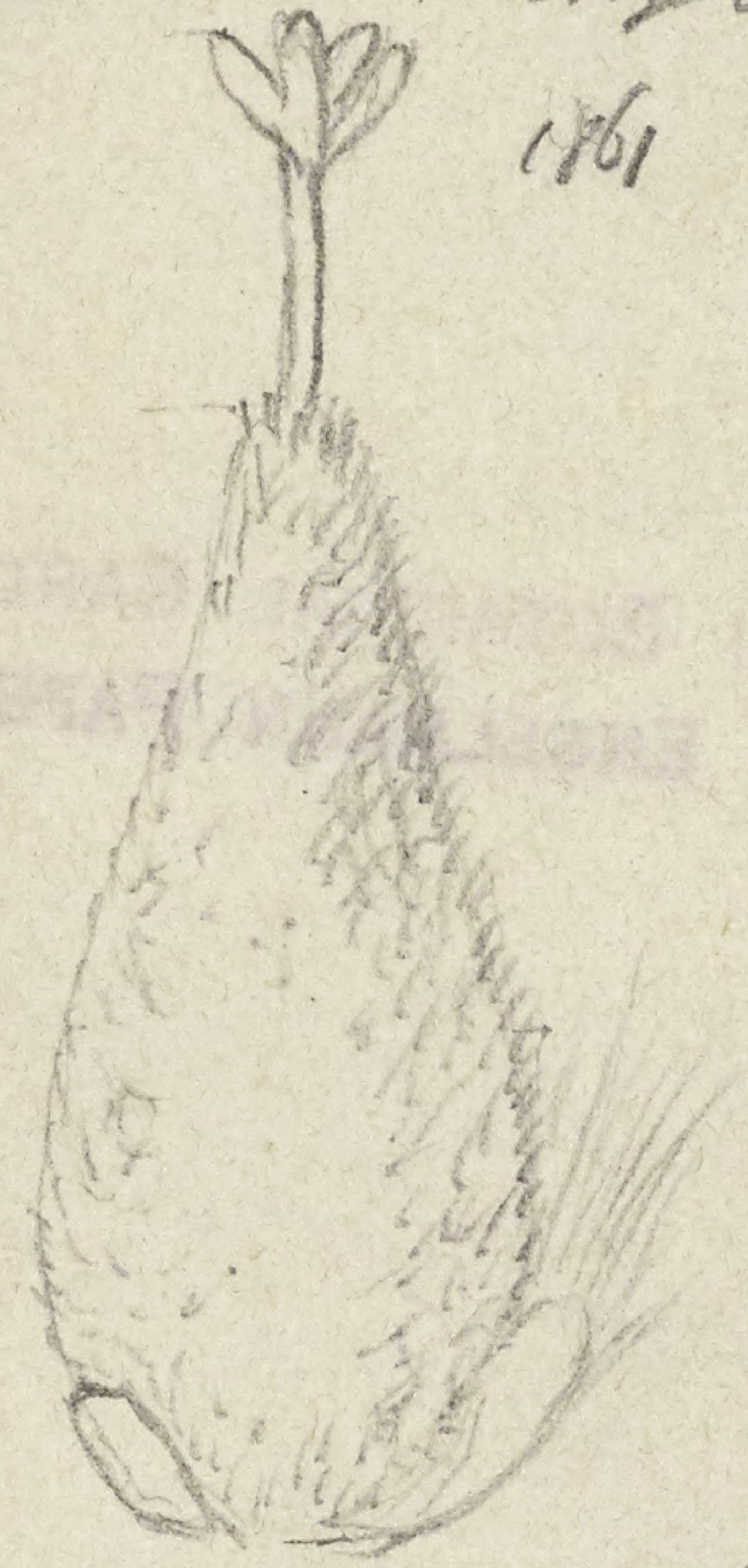
Sept 5 1875

7. S. tristis
Mass. Oakes



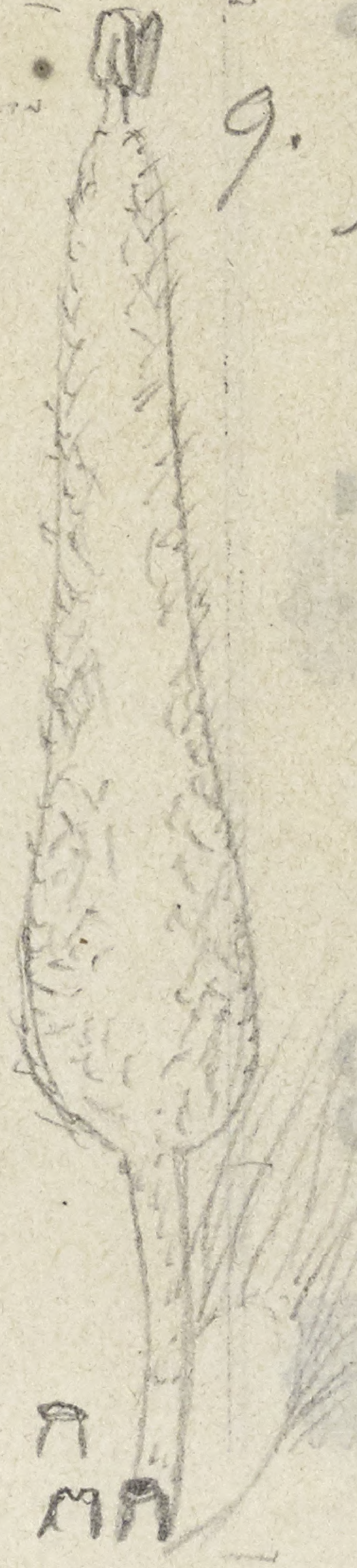
bract obtuse, half as long as pedicel, bearded long
gland 1/3 length of pedicel, obtuse
stigmas erect

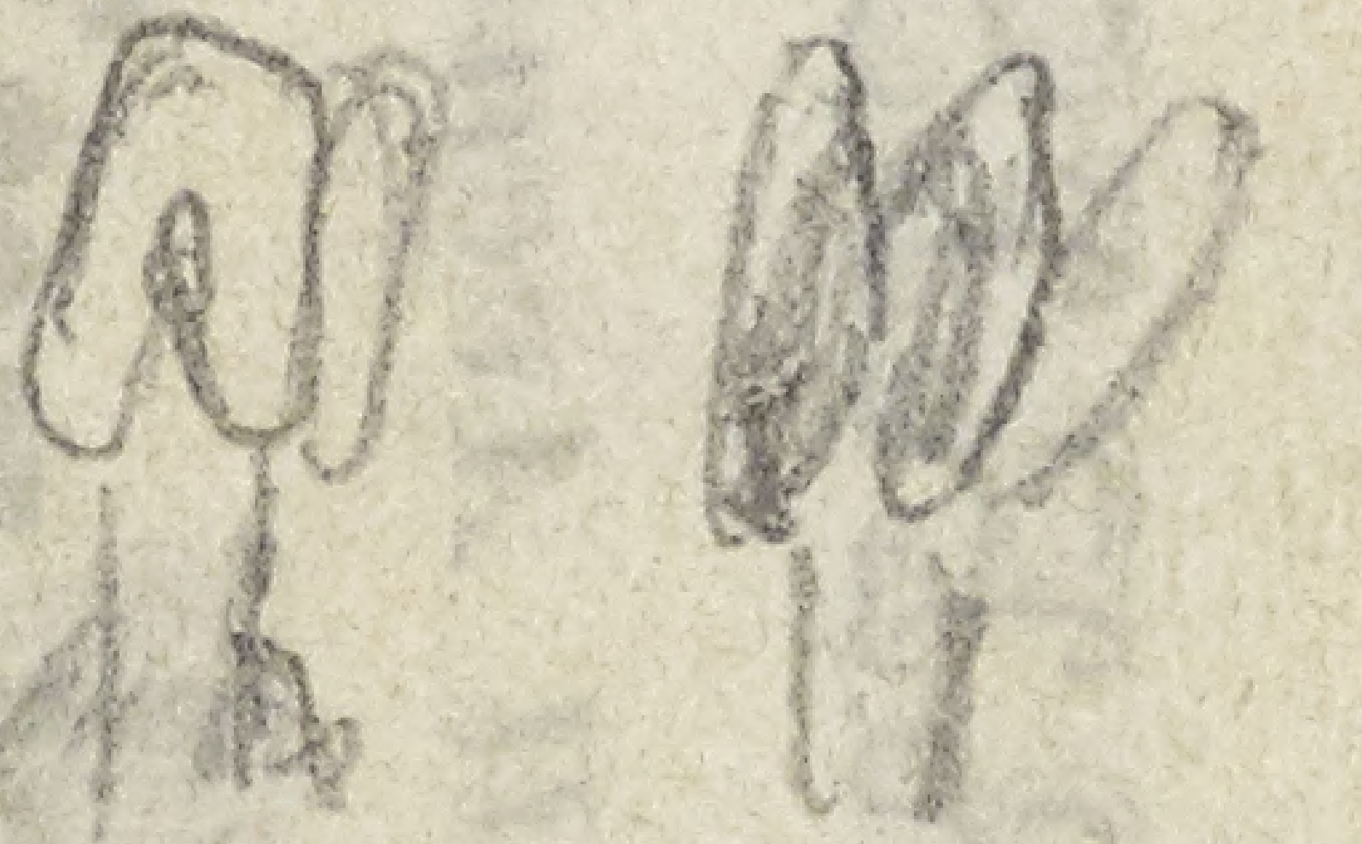
8. S. glauca
Colorado Parry 341
1861



bract short, obtuse, bearded,
gland half as large,
obtuse
ovary sessile,
style long, naked
stigmas 2-lobed
petaloid

9. S. rostrata
Santa Fe Fendler 815





stigmas united
like humilis
or divided
in same inflor.

bract obtuse, bearded
half as long as pedicel
gland very small
obtuse or notched
style short, stigmas
entire or divided, erect

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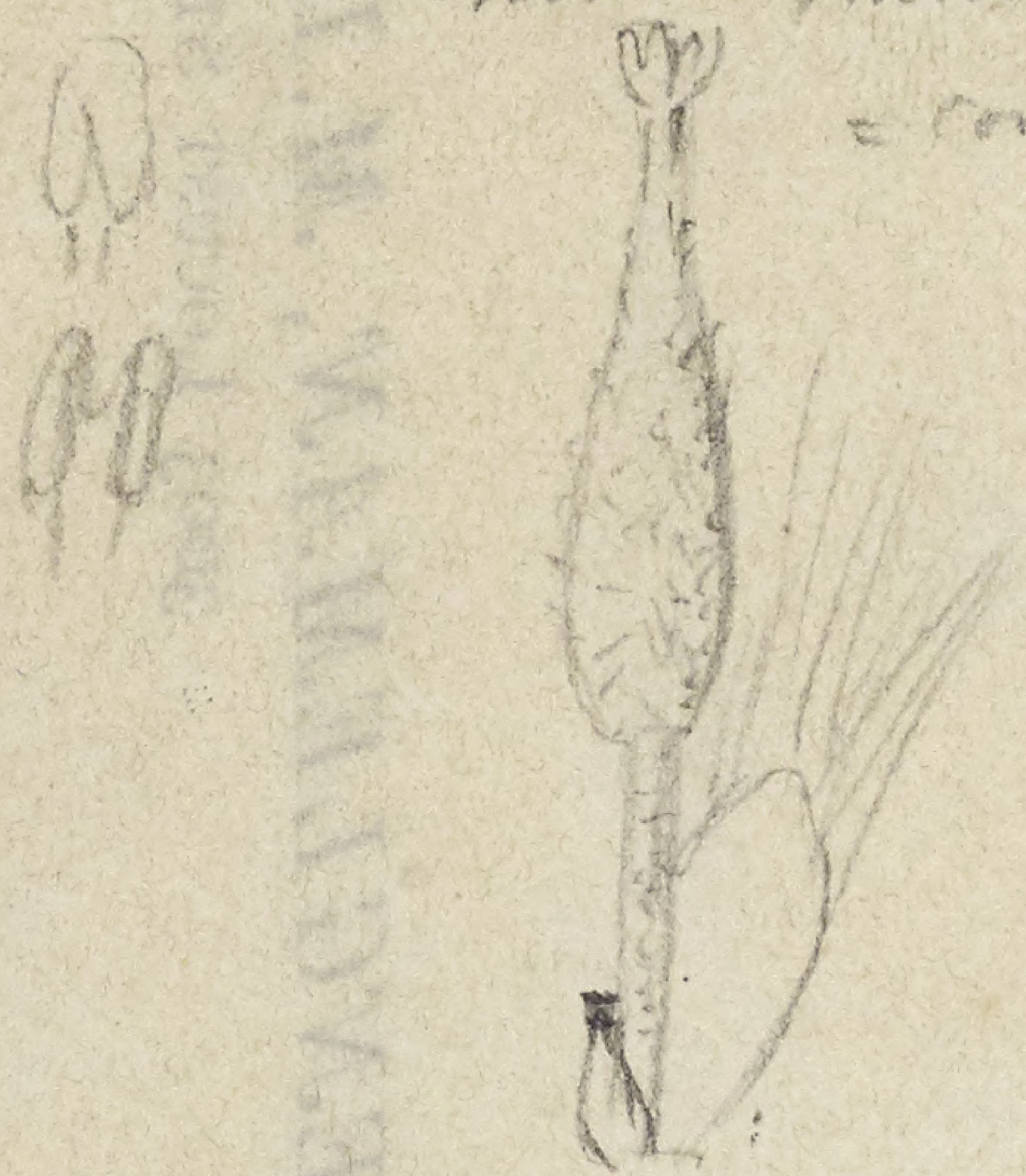
Sept 5 1875

10 "S. sericea"

Ohio Frank

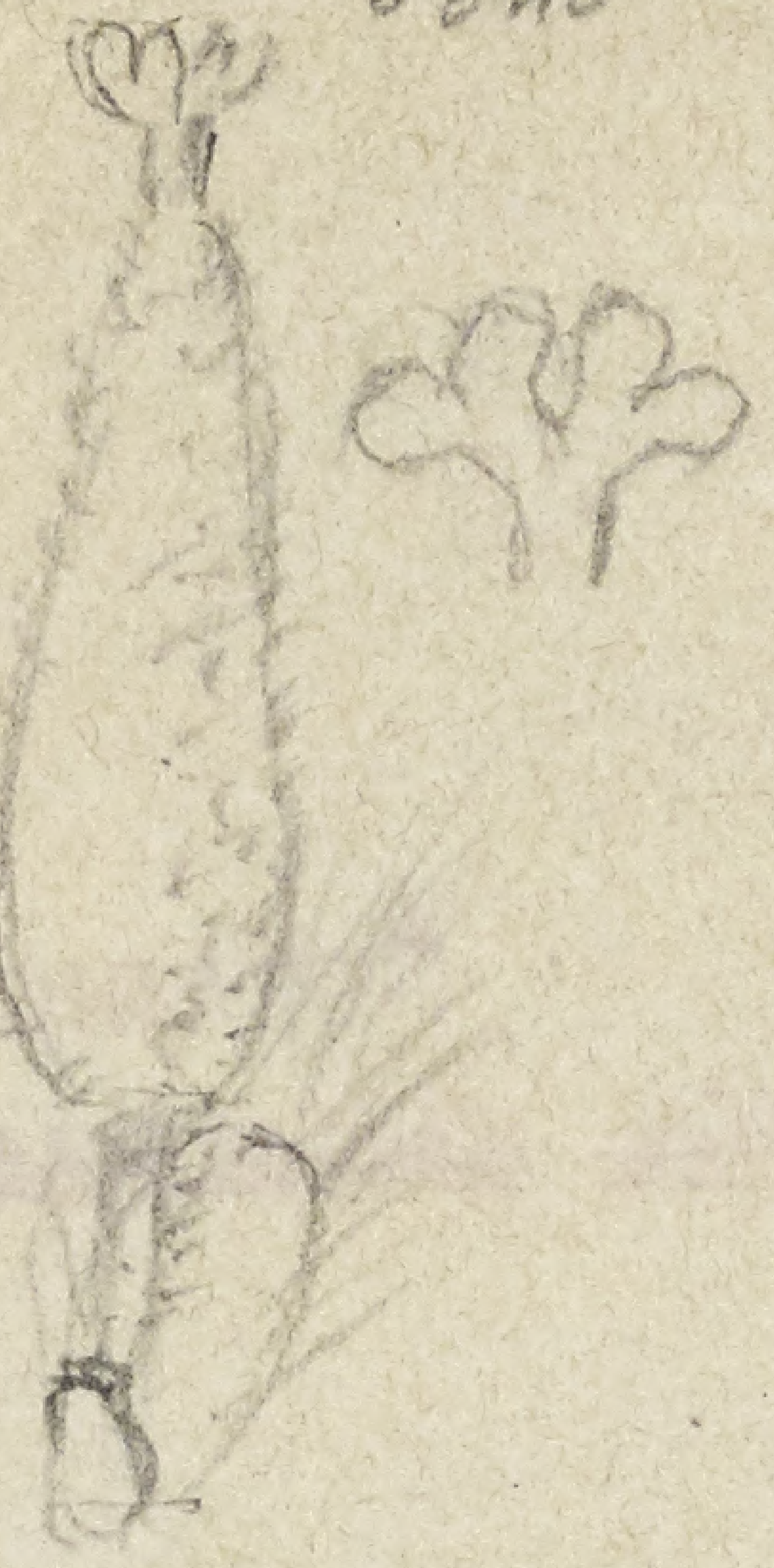
= cordata!



scale bearded
as long as pedicel
pedicel more th. half as
long as ovary
gland tapering to a
blunt point, 1/3 or more th. length
of pedicel
stigmas entire
or divided

11.

Chouteau Pond

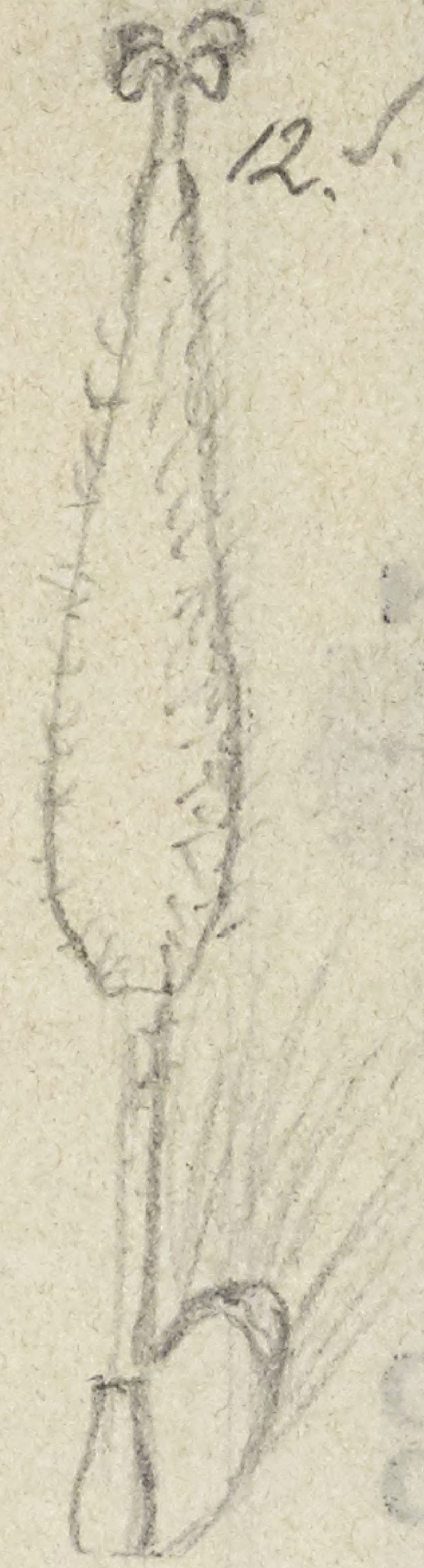


scale as long as
pedicel,
gland 1/3 or 1/4 as long
pedicel more than
1/3 length of pistil
stigmas small oval,
bilobed

12. "S. Muehlenbergii"

St Louis, Geyer

probably ~~rostrata~~
tristis



black scale half as long
as pedicel
pedicel slender over half
th. length of ovary
gland tapering, abt 1/3 of pedic

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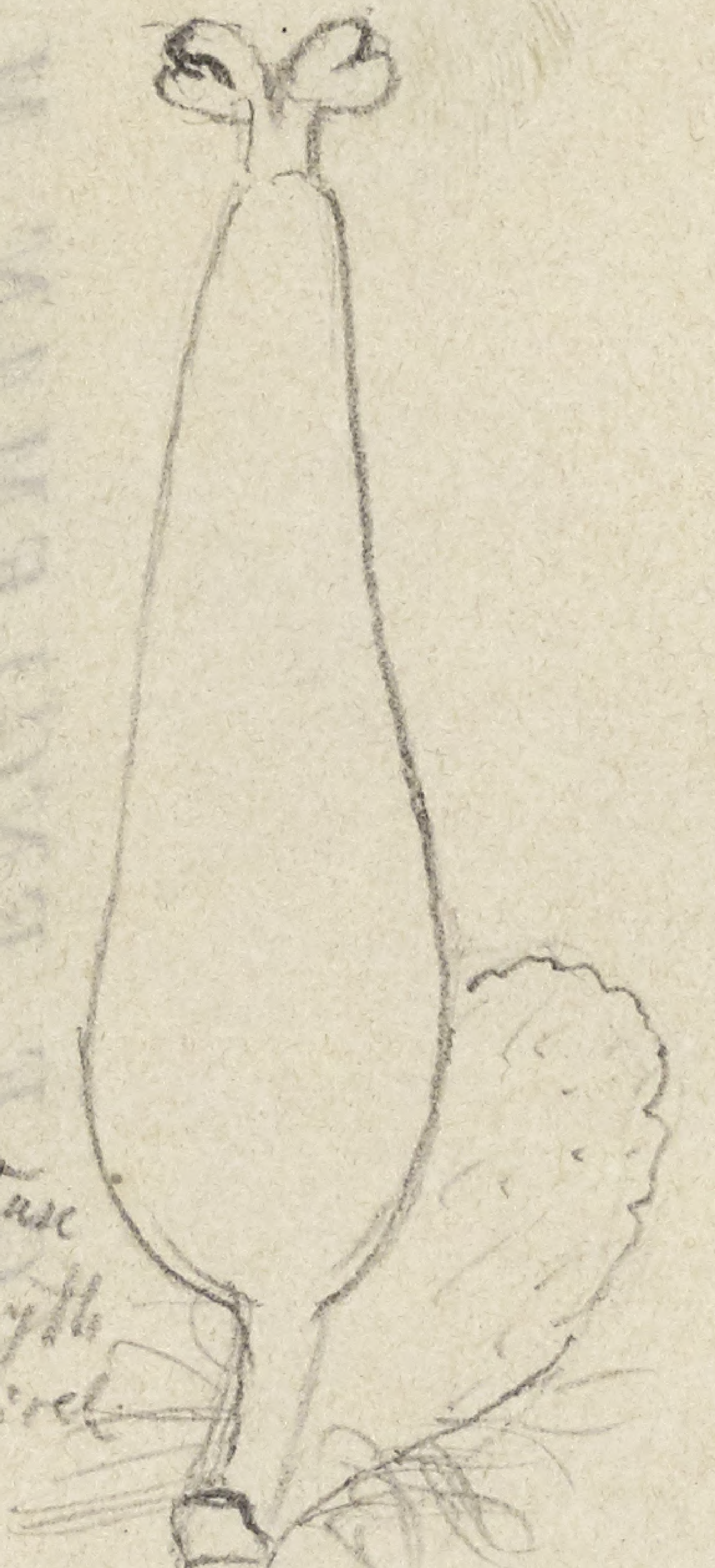
Sept 5 1875

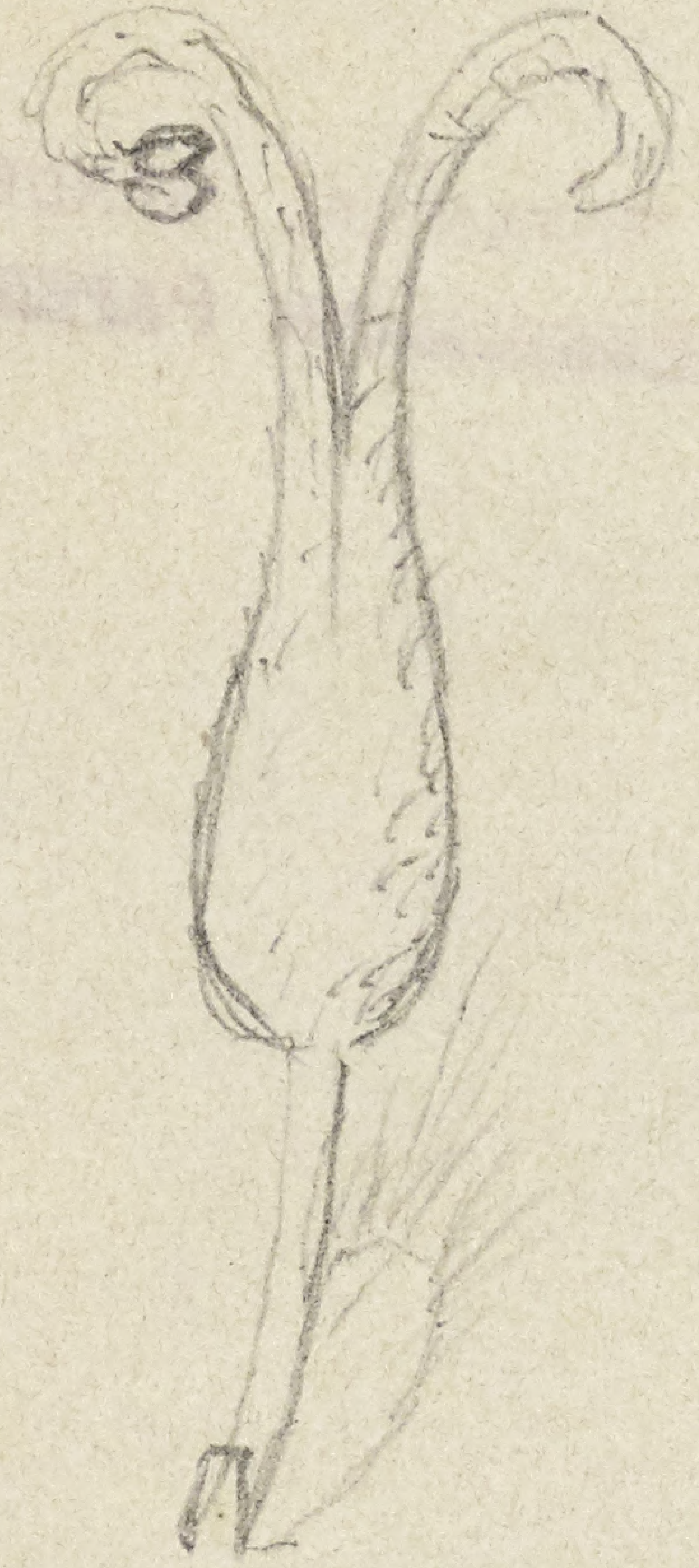
S. Bonplandiana Kth
13. Fendler No. 816



gland retuse 1/3 the length of pedicel

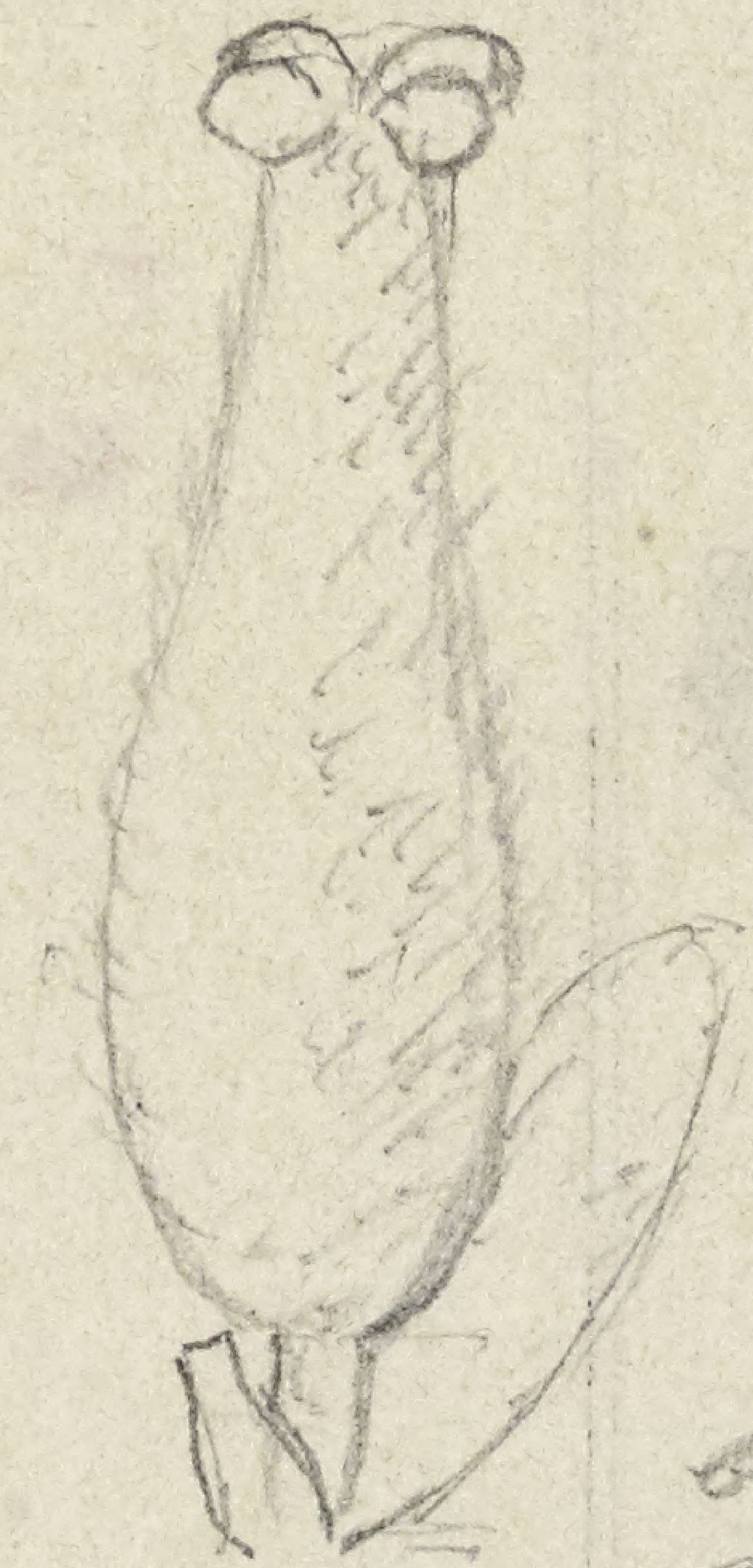
bract 2-3 times as long as pedicel, crenate obtuse slightly hairy — ovary naked stigmas 2-headed, style short.

14 S. humilis Minnesota
Dr Sykes 1849



= Iowa plant but bract half as long as pedicel

15. S. longifolia
St Louis 1839



bract obtuse almost glabrous more than twice as long as pedicel very deciduous
gland as long as pedicel tapering
ovary woolly — stigmas 2 headed, style none

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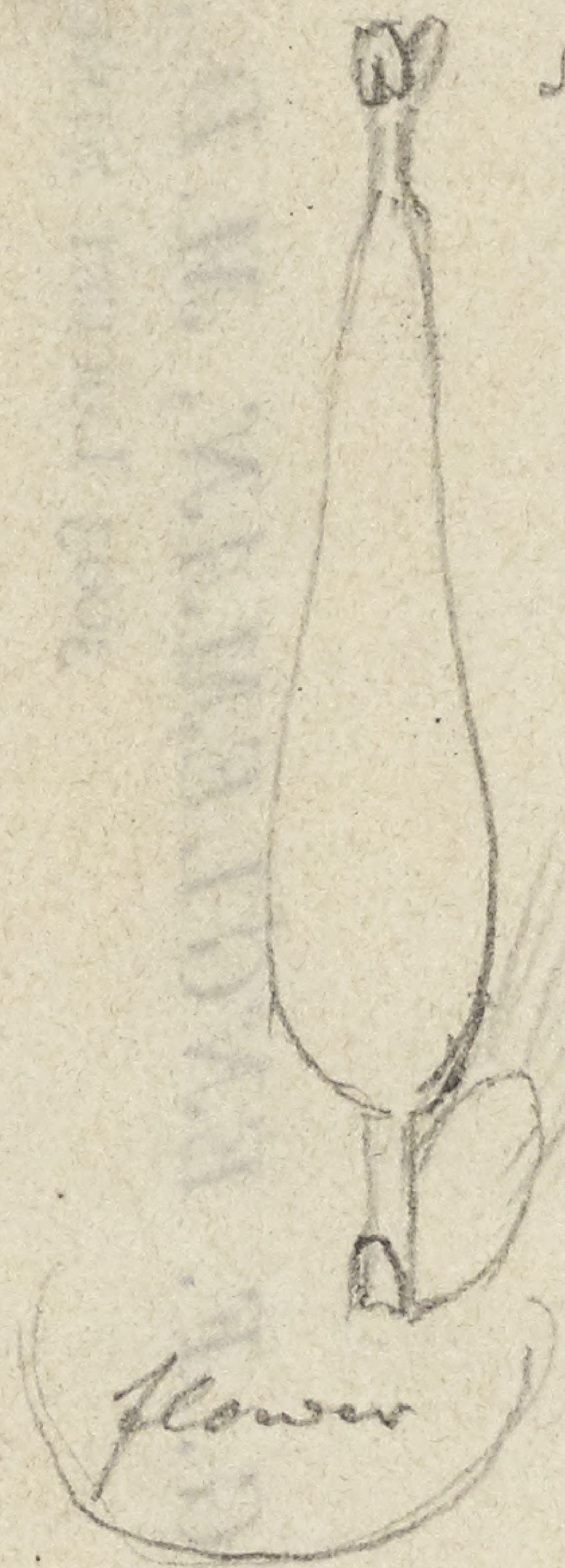
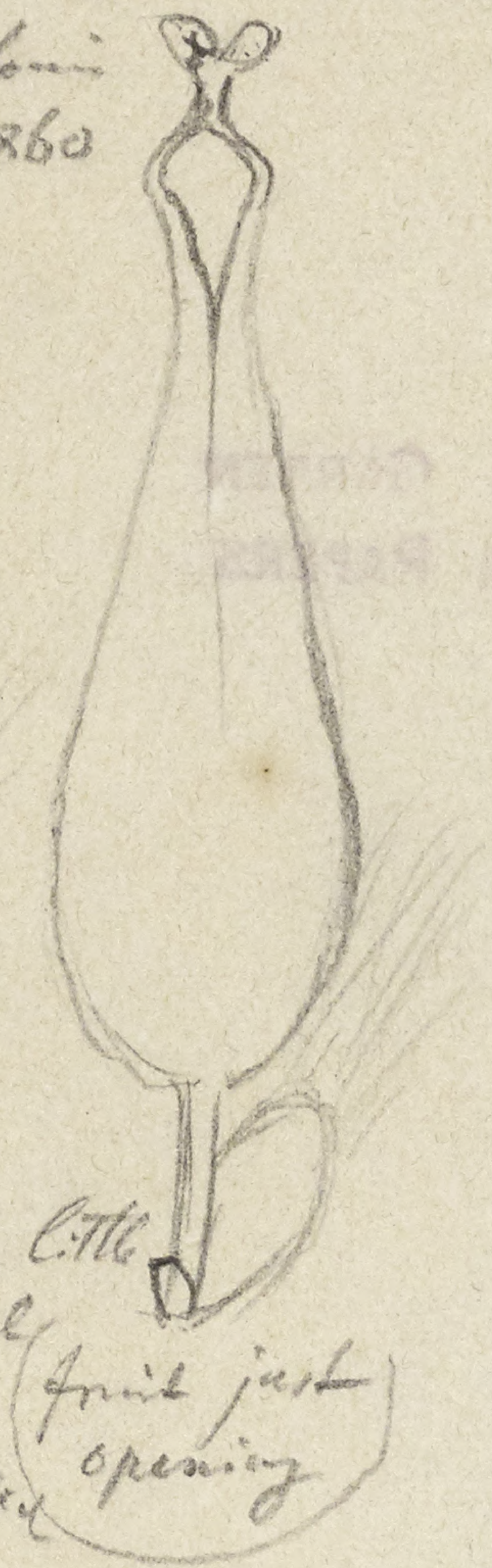
Sept 5 1875

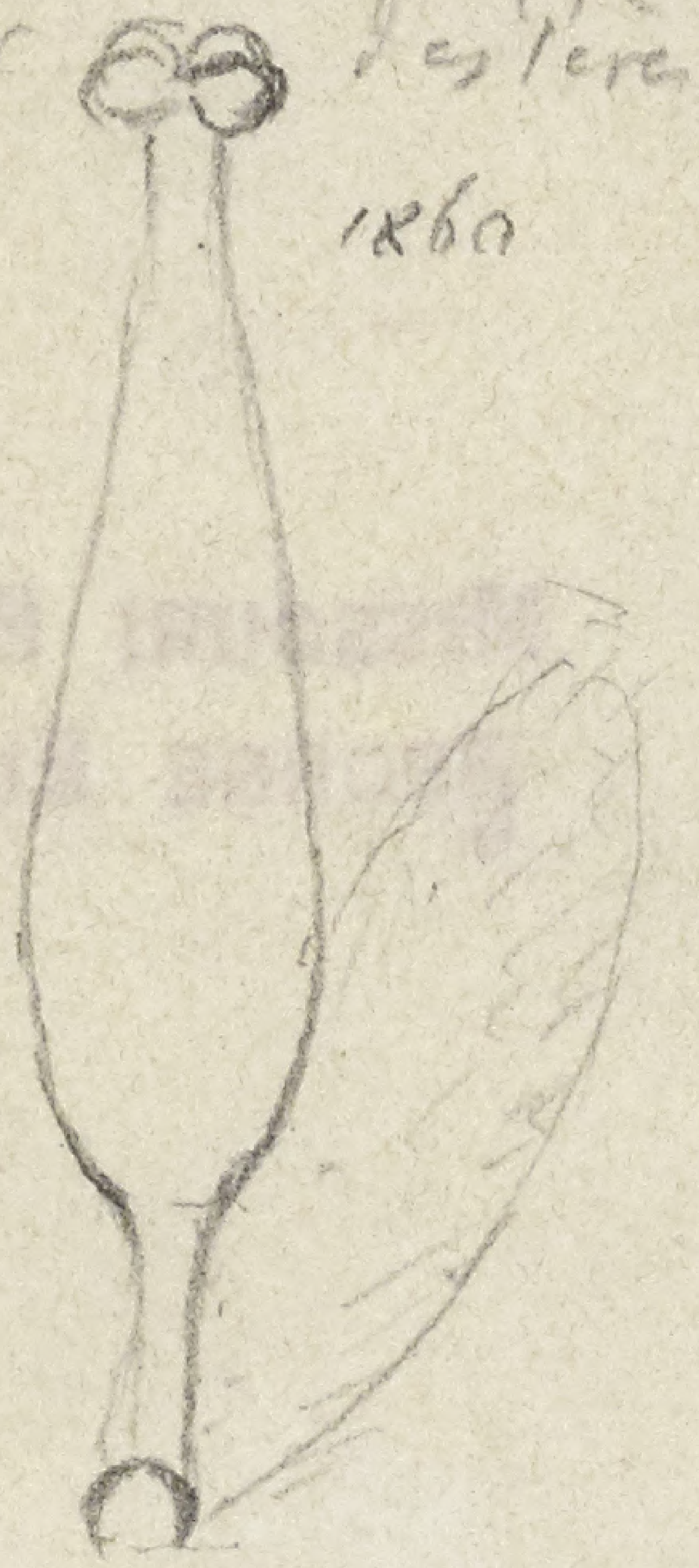
16 River des Peres St Louis 1860

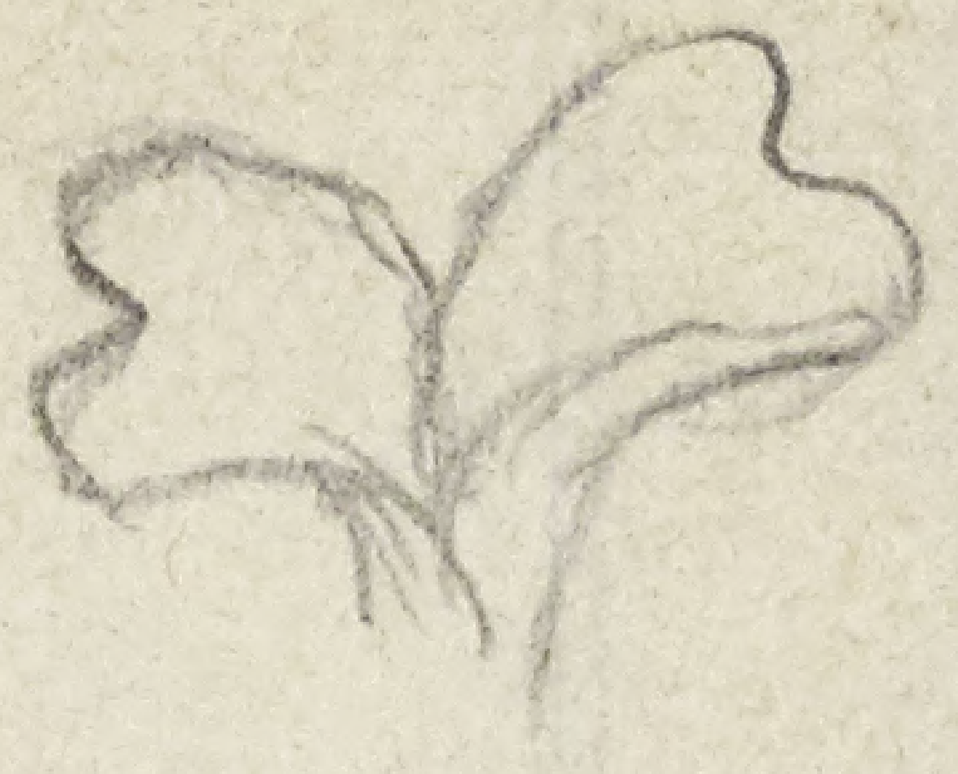




bract as long or a little longer than pedicel obtuse, bearded,
gland 1/3 - 1/4 of pedicel
ovary naked
stigmas entire, small

17 Salix lucida? River des Peres 1860





bract large obtuse short hairy deciduous
gland rounded, 1/3 the length of pedicel
ovary naked
stigmas horizontal, entire, or almost two lobed

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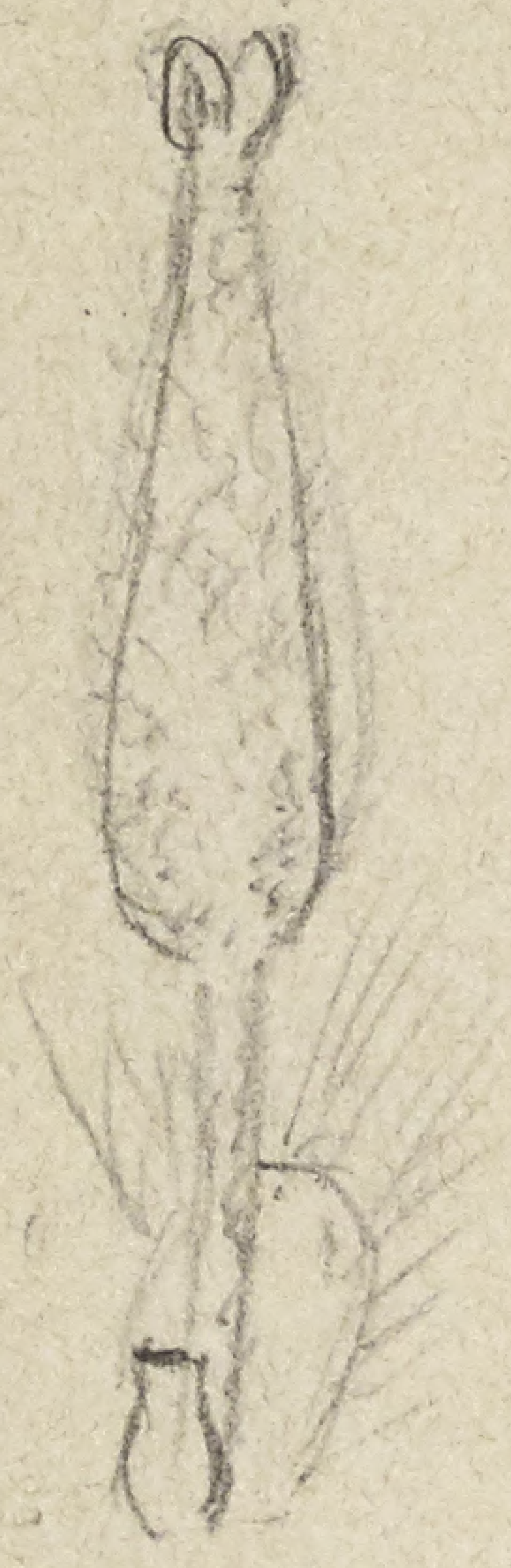
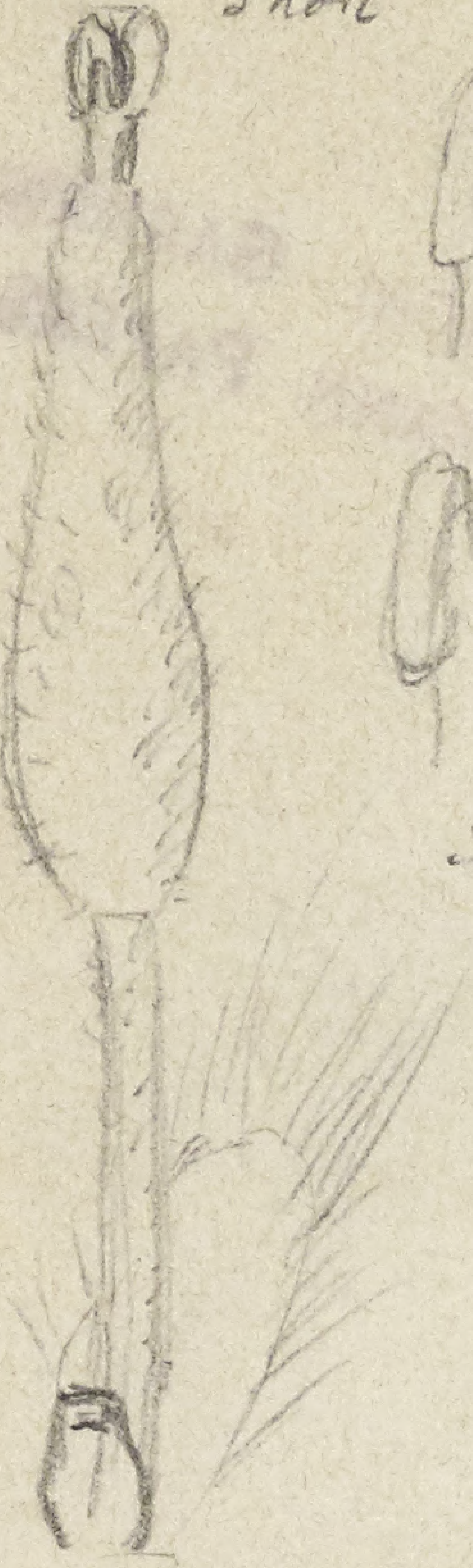
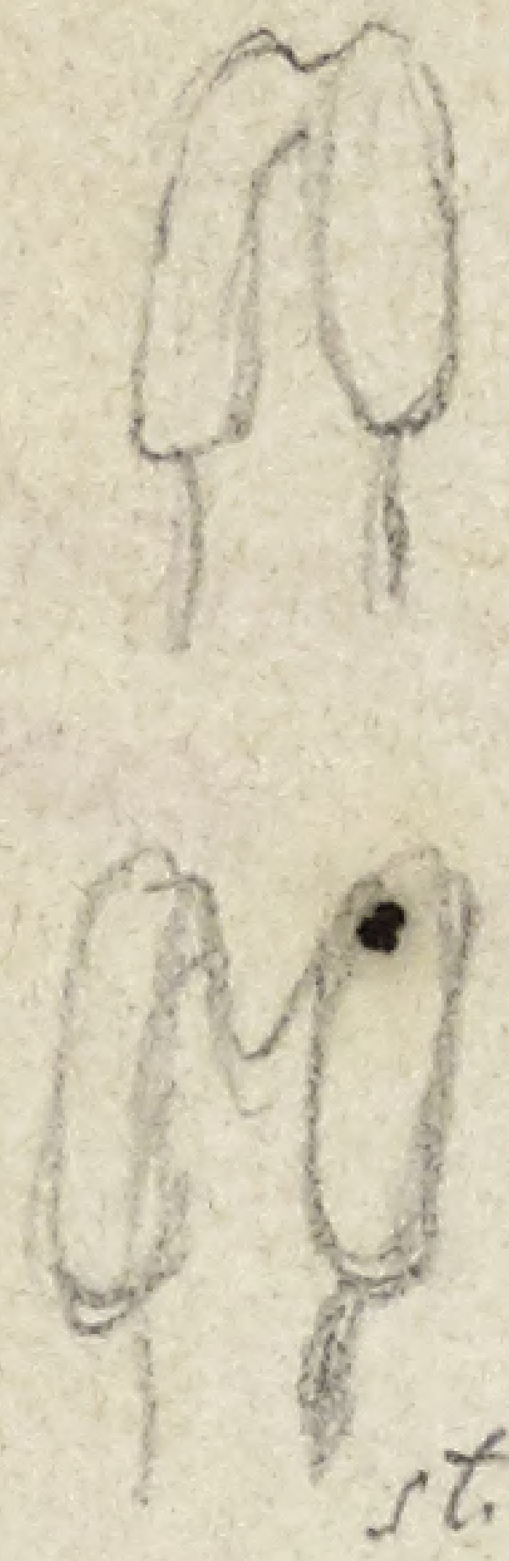
Sept 5. 1875

18 S. tristis
Kentucky Short



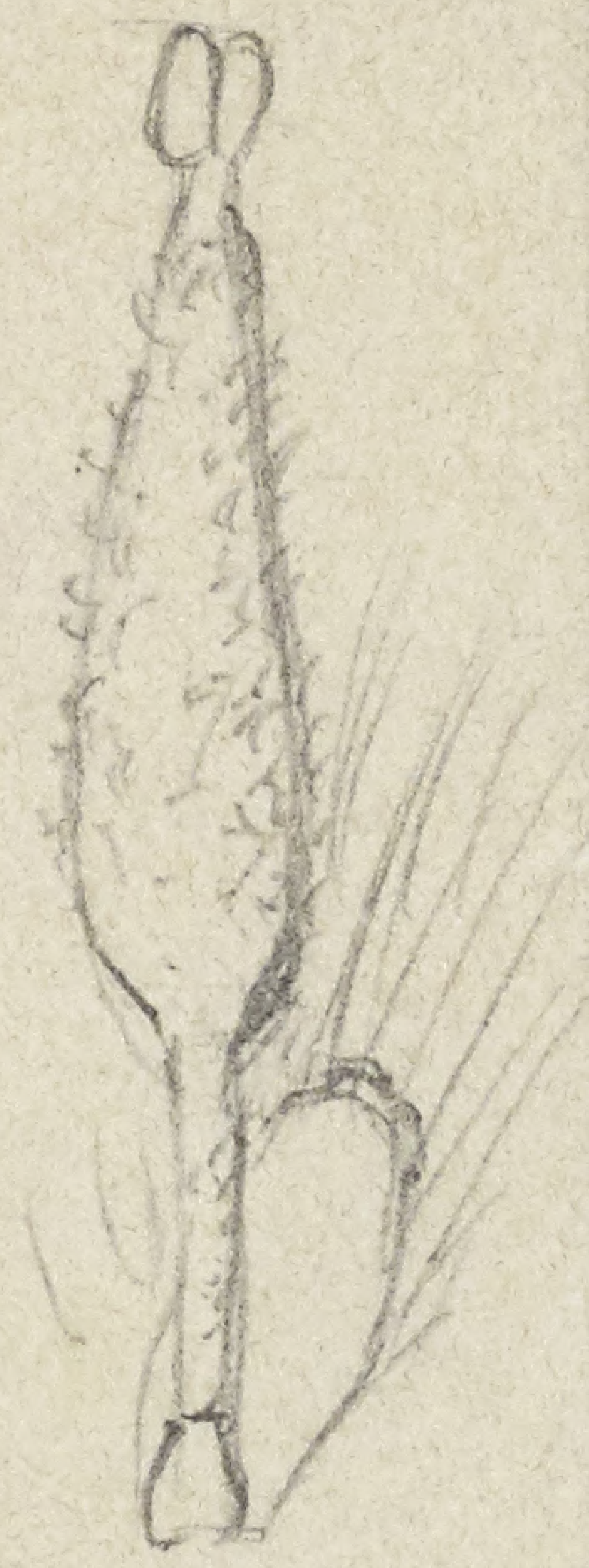
19 S. rostrata
Illinois Bebb
Short





stigm
in same
amount

20 S. humilis
St Louis 1833, march



bract as long as
pedicel
p. half as long as
ovary —
gland about 1/4 of
pedicel

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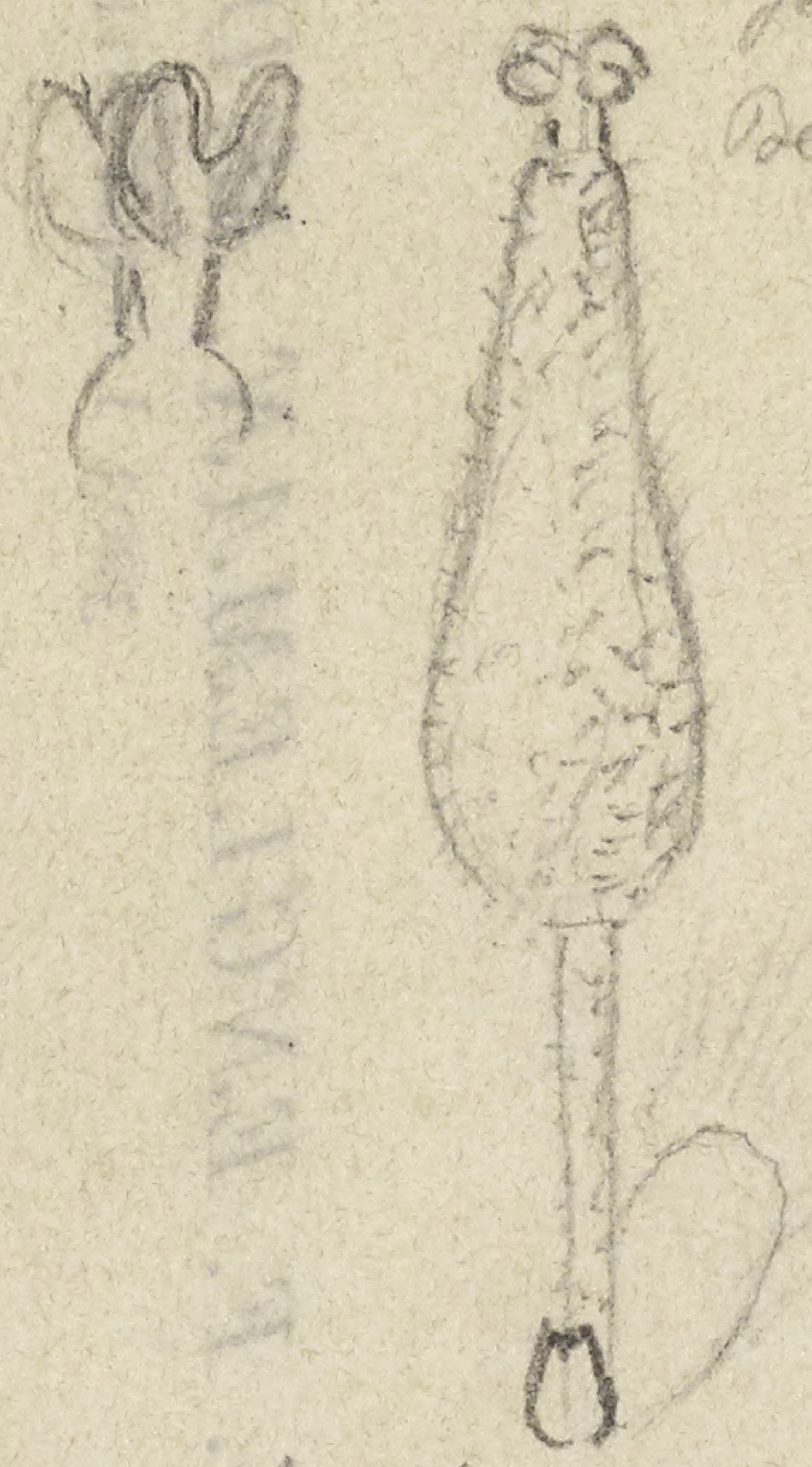
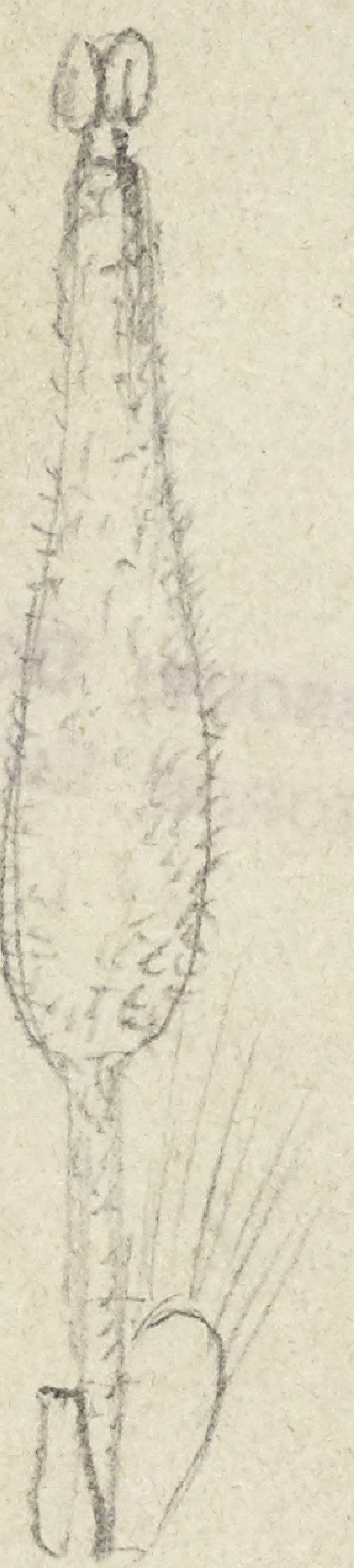
Sept 5 1875

21 "S. grisea"

Geyer
Bearditown



22 S. tristis
short, (Kenly)



black short scale
half as long as
pedicel — beard at
rather short (beard
reaching to base of ovary
pedicel 2/3 length of ovary

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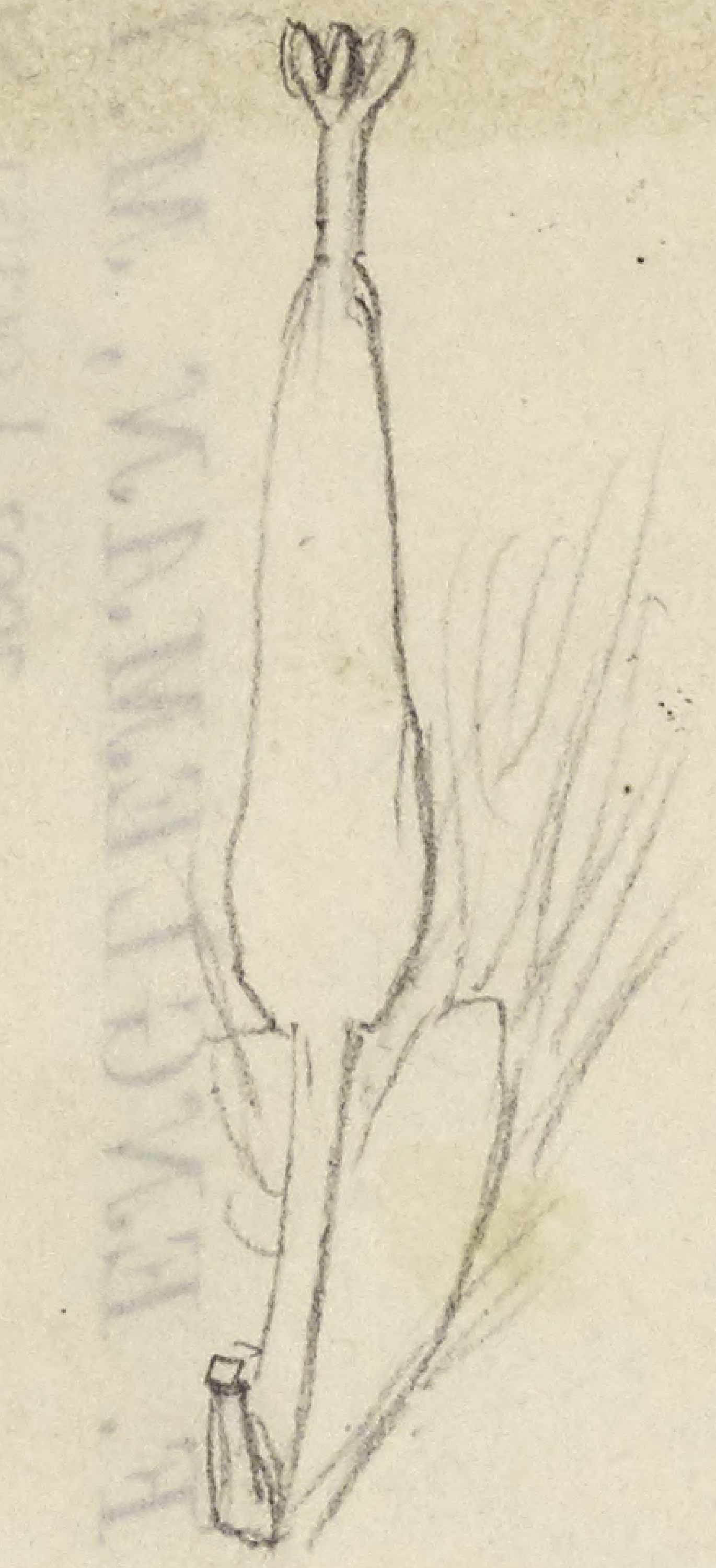
Sept 6 1875

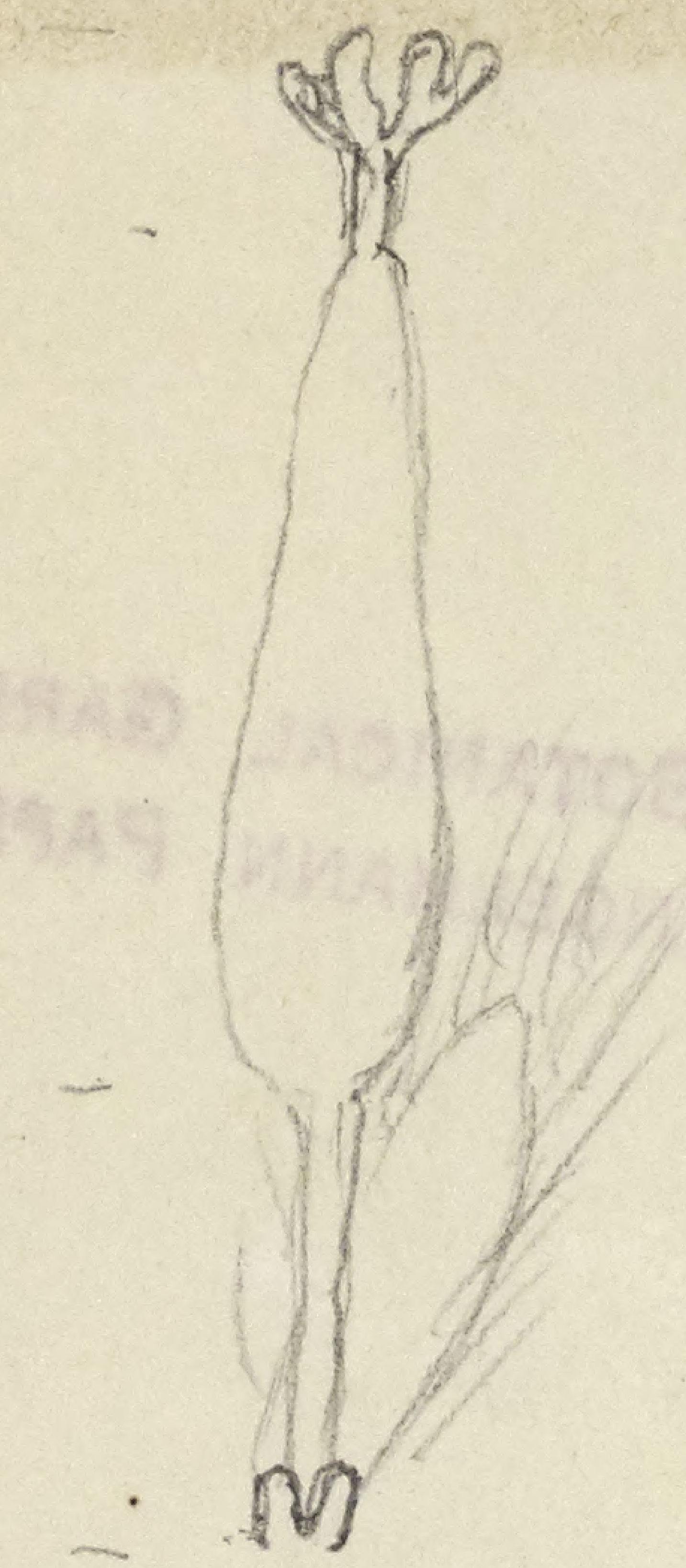
No 23 Salix cordata
Chouteau Pond, Geyer

=4



ovary & pedicel glabrous,
bract as long or longer
than pedicel, long bearded.
gland slender, subulate,
style long, stigma small
2 parted

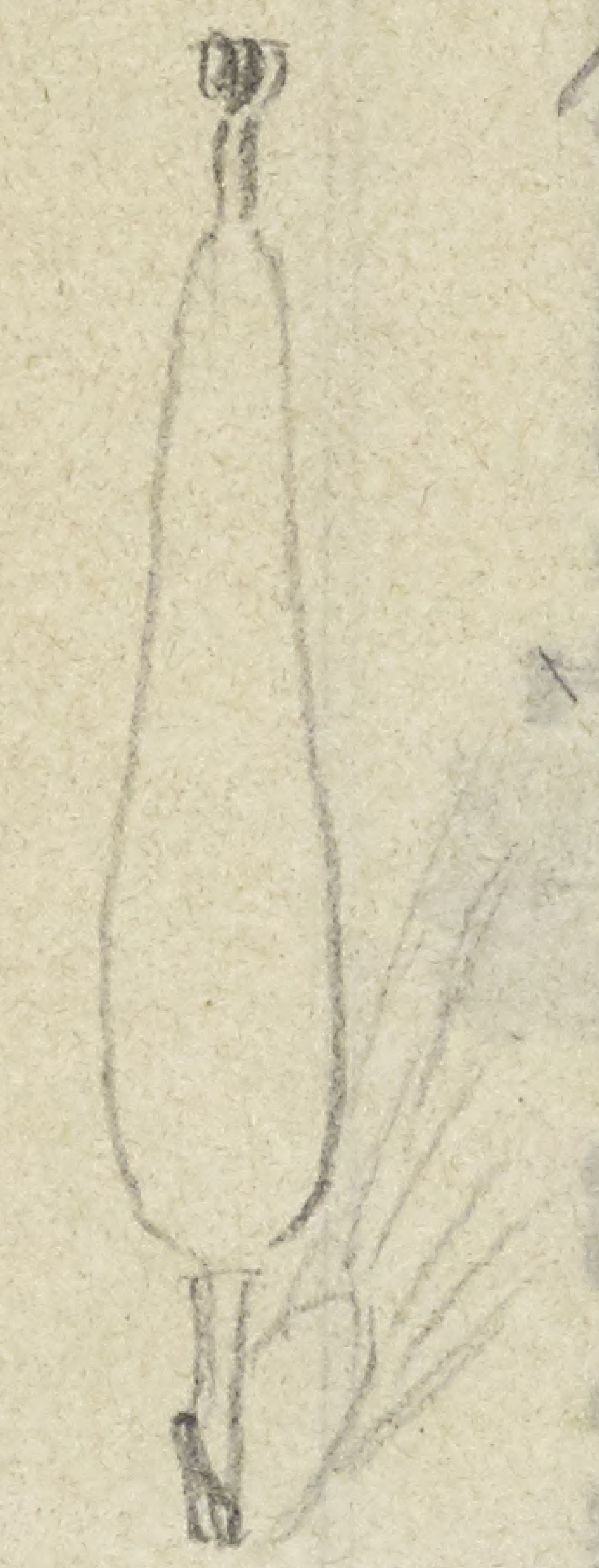
24. Salix
Dr Gregg N near Mexico



very near 23
but with 2 lobed
gland and
deeply lobed
stiped stigmas

25.
River des Peres
1860

= 23 & 4



= 23 but pedicel and
scale much shorter

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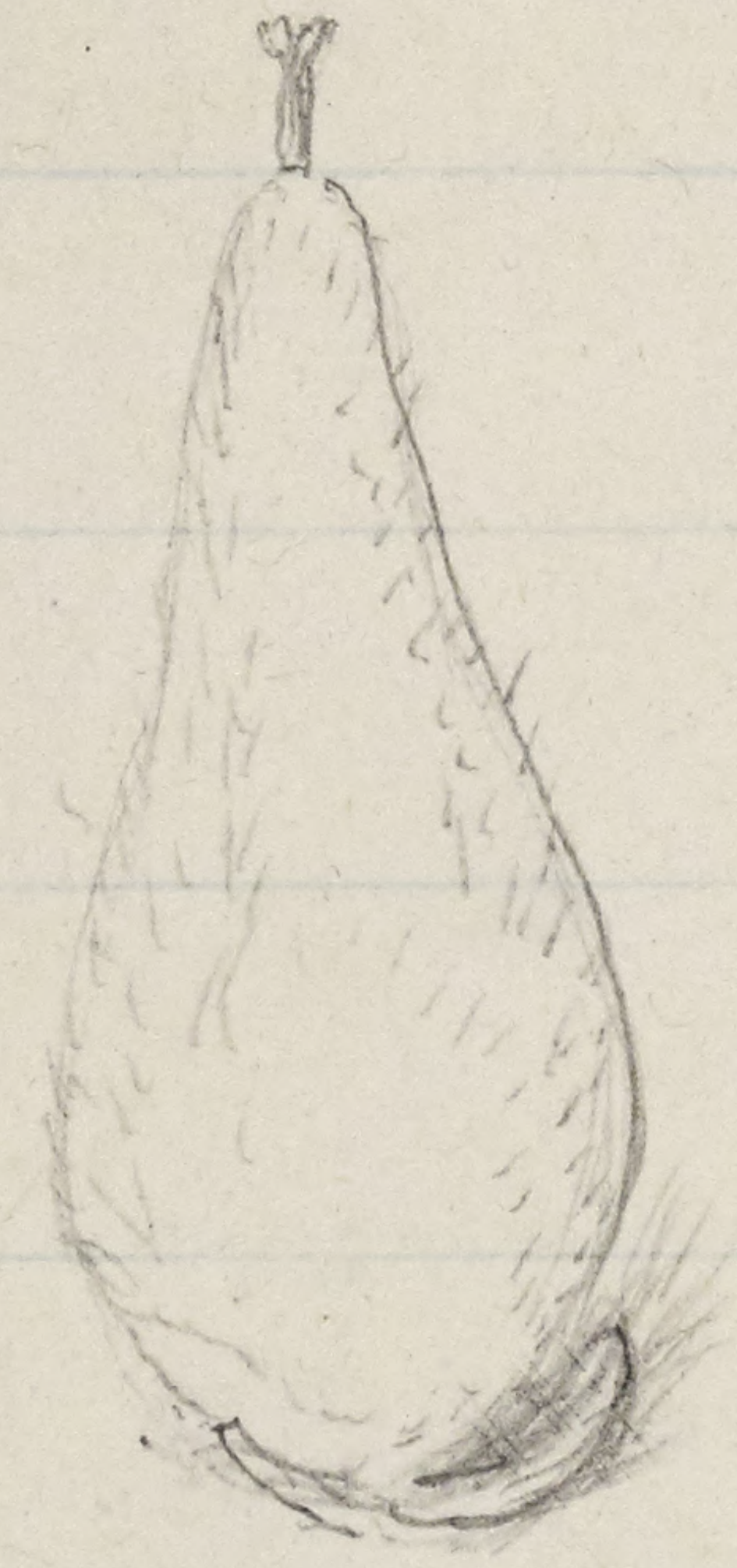
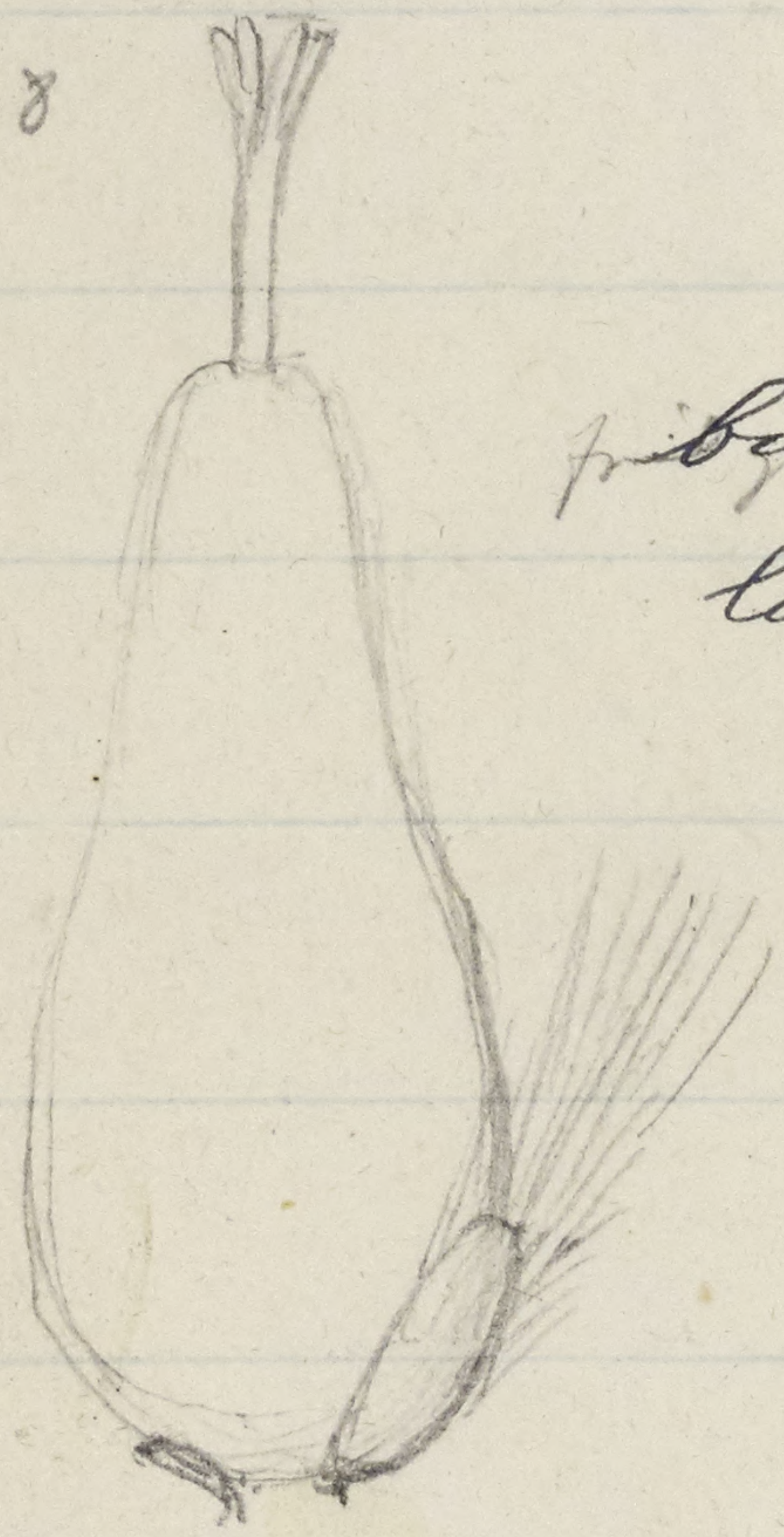
named by S B Bebb 1882



Salix No 3 desertorum Richards low bush, 1½–2½ feet high on Bard Creek, opposite Empire City, Col; overhanging the banks, Aug 11 1881

Stigma 2 parted – capsule short pubescent.

Aug 11 1881



Salix No 1 Novae Angliae Anders 8–12 feet high, caespitose, nearly 2 inches diameter; on marshy places in Bard Creek valley, opposite Empire City buds long and pointed; fruit open, still adhering; glabrous; style long, with 4 stigmas; bract short, oval obtuse, long silky at tip.

Salix No 2 irrorata Anders. in same locality; no fruit seen; branches white mealy, bloom easily rubbed off; not present in young vigorous shoots; foliage dark green bushes 6 – 8 feet high.

5802

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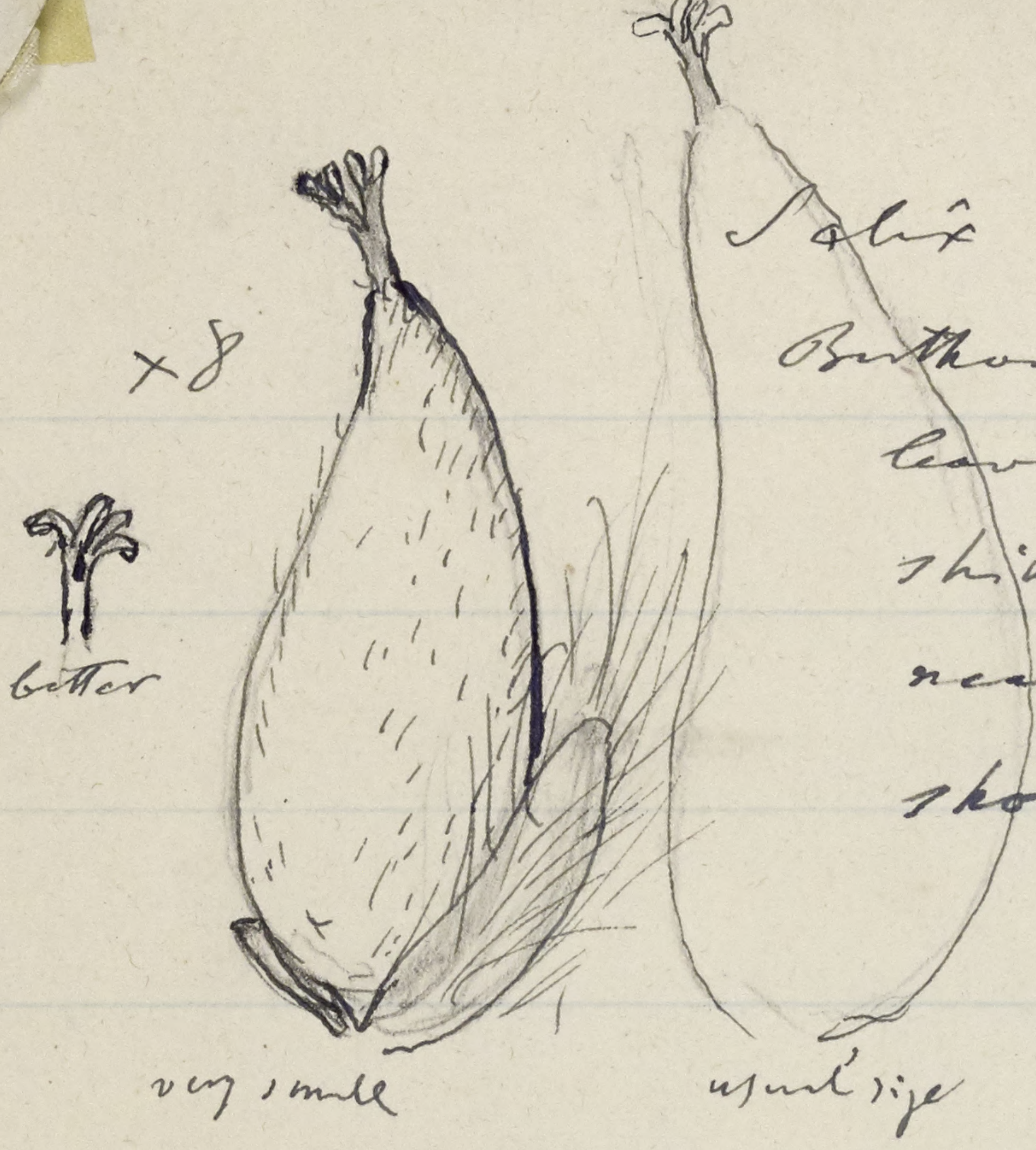
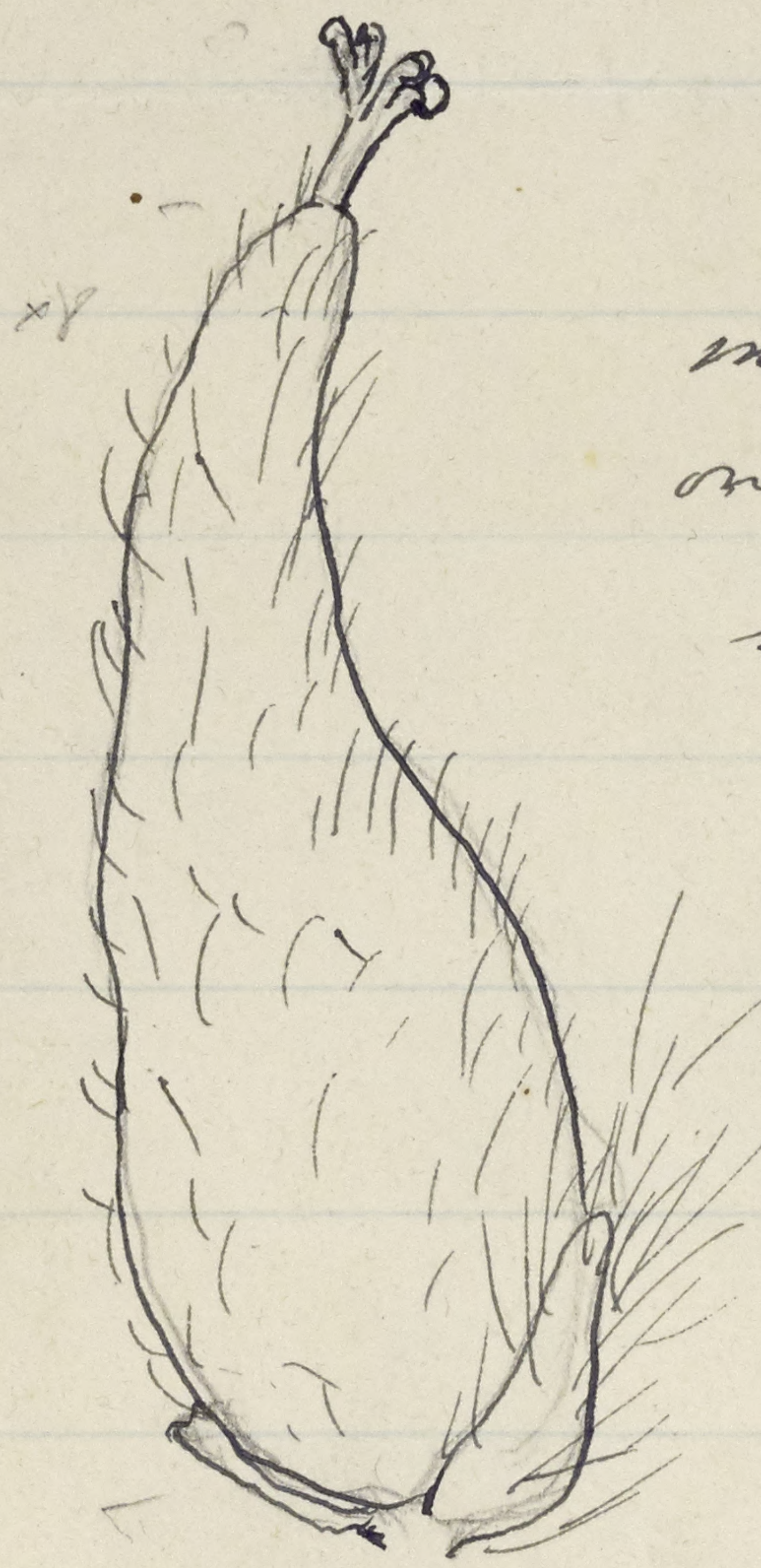
Salix No 9 chlorophylla Anders.

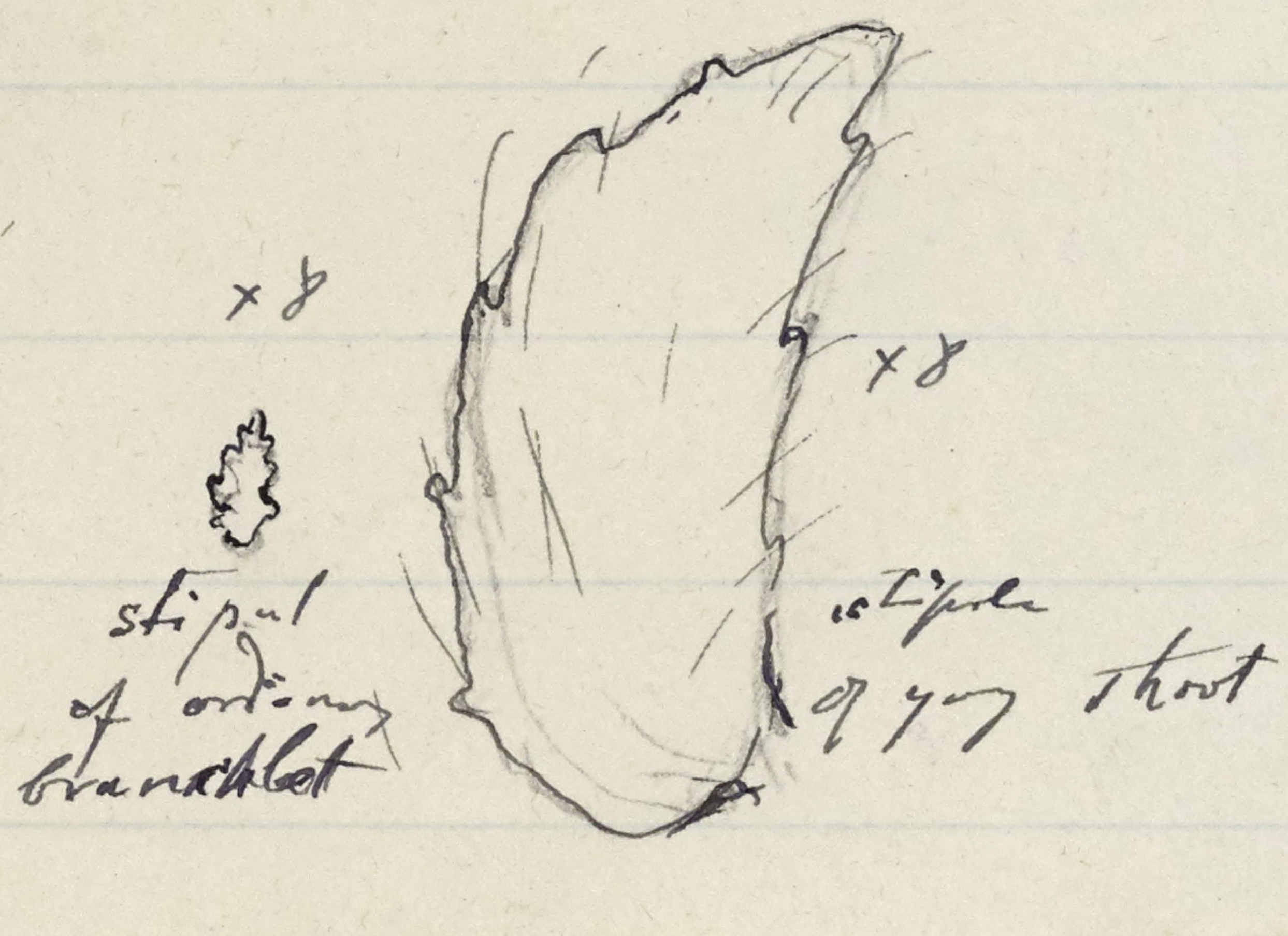
Berthoud Pass July 25 1881 Capsules almost all open. leaves broad, often cordate; no stipules seen; branches deep brown shining; leaves deep green, shining; pale underneath – perfectly glabrous, but when young somewhat silky; bract long hairy, capsule short pubescent; seeds shed



Salix No 8 desertorum Rich July 25 etc 1881

Berthoud Pass and higher, far above timber line, much more common than last, 4-5 feet high in Pass, ½–1½ high on alpine slopes, very fertile, later than last, caps. not yet open stipules minute, glandular dentate; leaves grey silky pubescent; on greatest elevation more glabrous above





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Salix

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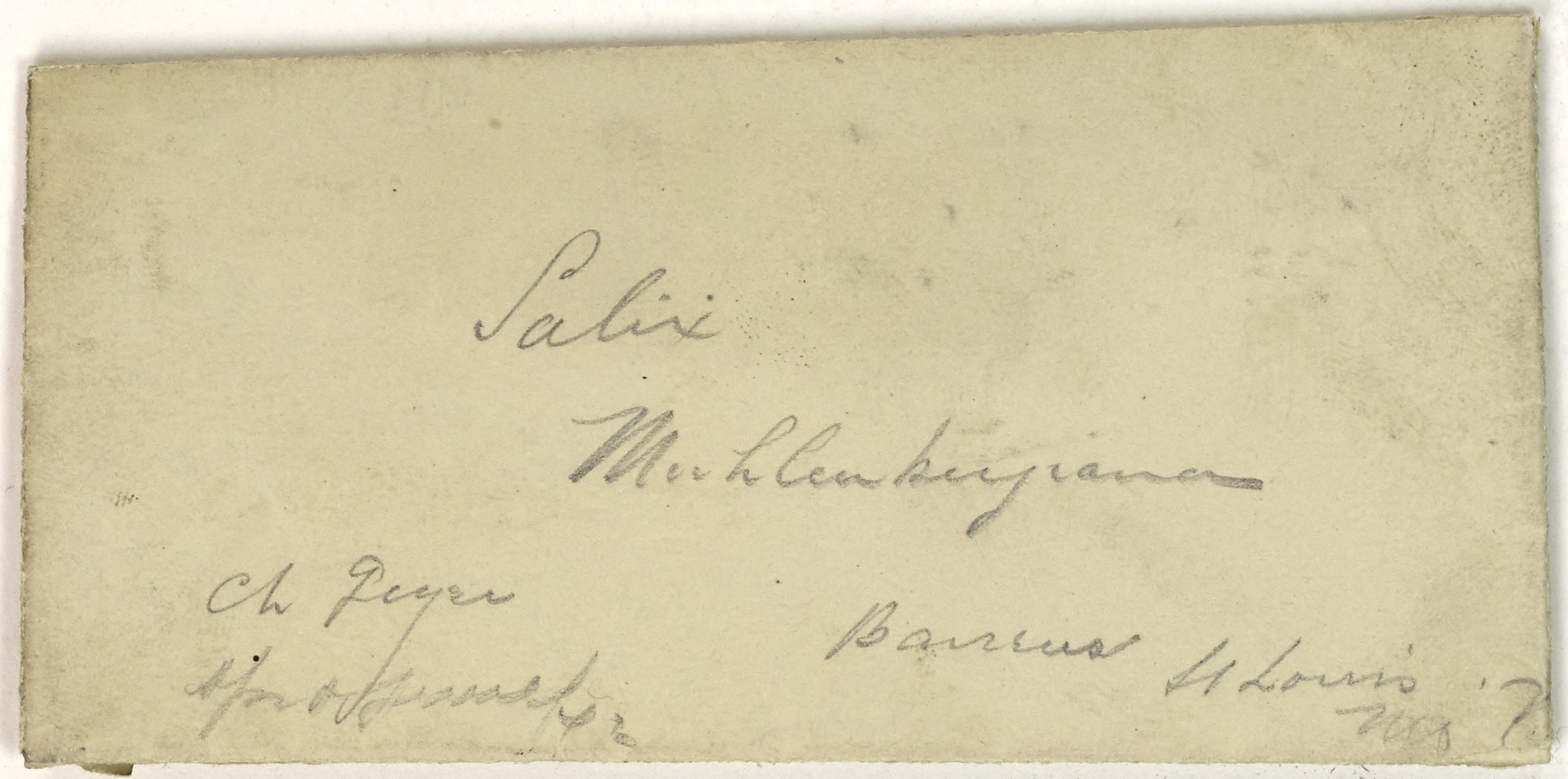

Salix

Muhlenbergiana

Ch Geyer

Apr & Summer 42

Barrens St Louis

Mo.

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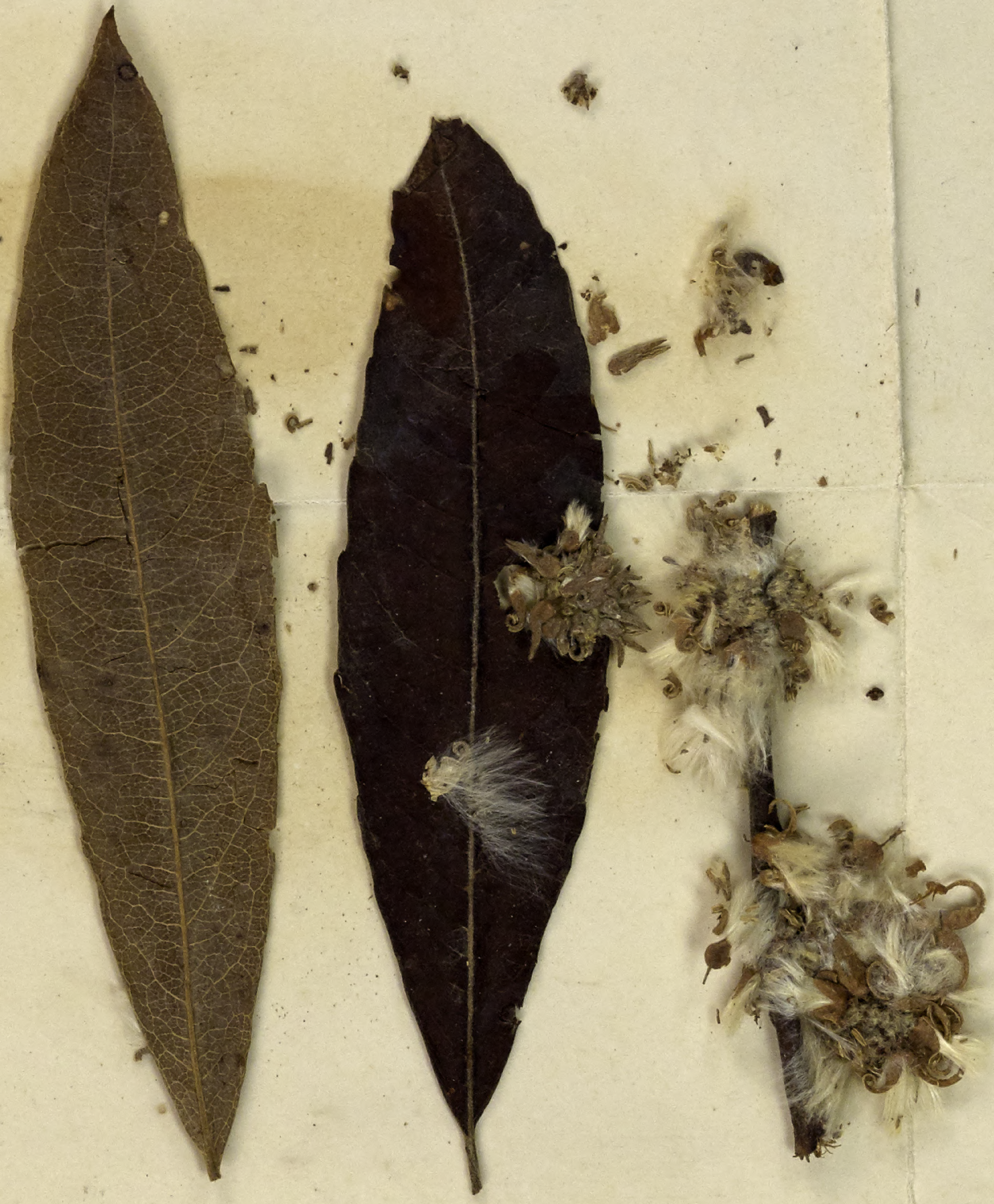
Tenerum
macrophyll
trapeziform
Farleyena
pubescens
Cap.-veneris
sibutos



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Andersson does not say what Fendler 816 ♀ is — Is it not S. Bonplandiana
The naked scales, woolly only at base are peculiar ?
Dr Gregg coll. at Saltillo S. nigra repeatedly (not in Andersson

S. humilis bract (black) as long as short pedicel Chautauque — Sartor 1833 — Iowa grisea Tuck?
S. tristis bract black half as long as long pedicel Mobile? Illinois Geyer, Kentucky Short 18. 22? Oakes 10 14 humilis? grisea Geyer 21?
S. rostrata pale bract. longer than half of long pedicel. Bebb coll. Fendler Arthur Iowa

humilis fig. 6. 11. 10? 20
tristis 7 12 14 18 21. 22
rostrata 9 (12?) 19

6.14.12 20
18 22 7

fig 7. 8. 9 [illegible]

to look for the following
in Colorado
18 lucida
19 arguta
28 longifolia var
42 discolor
43 Geyeriana
44 vagans (rostrata
50 petiolaris (& sericea)
51 humilis
56 Drummondiana
71 nov Angliae
72 pyrifolia
85 irrorata
107 Glauca (& sericea)
108 desertorum
112 subcordata
114 arctica
138 vestita
140 reticulata

415/1200
830
2700
1300
1245
550

0030
0032
29
31

Rec Jan 3

5805

~~[illegible]~~
humilis
hirtus
rostrata

Office of CLARKE IRVINE,
Attorney, Claim and Land Agent,
OREGON, HOLT COUNTY, MISSOURI.

Oregon, Mo., Jany 1 1872

Sir -

Seeing in your report on Climatology a statement that accurate observations had not been made in Mo outside of St Louis I beg leave to inform you that William Kaucher of this place has for 18 years made careful observations of the thermometer - and for seven or eight has recorded three daily for the Smithsonian Inst. These include observations of Barometer thermometer wet & dry bulb &c &c &c and I doubt if during all that time he has made one omission.

Resp yours
Clarke Irvine

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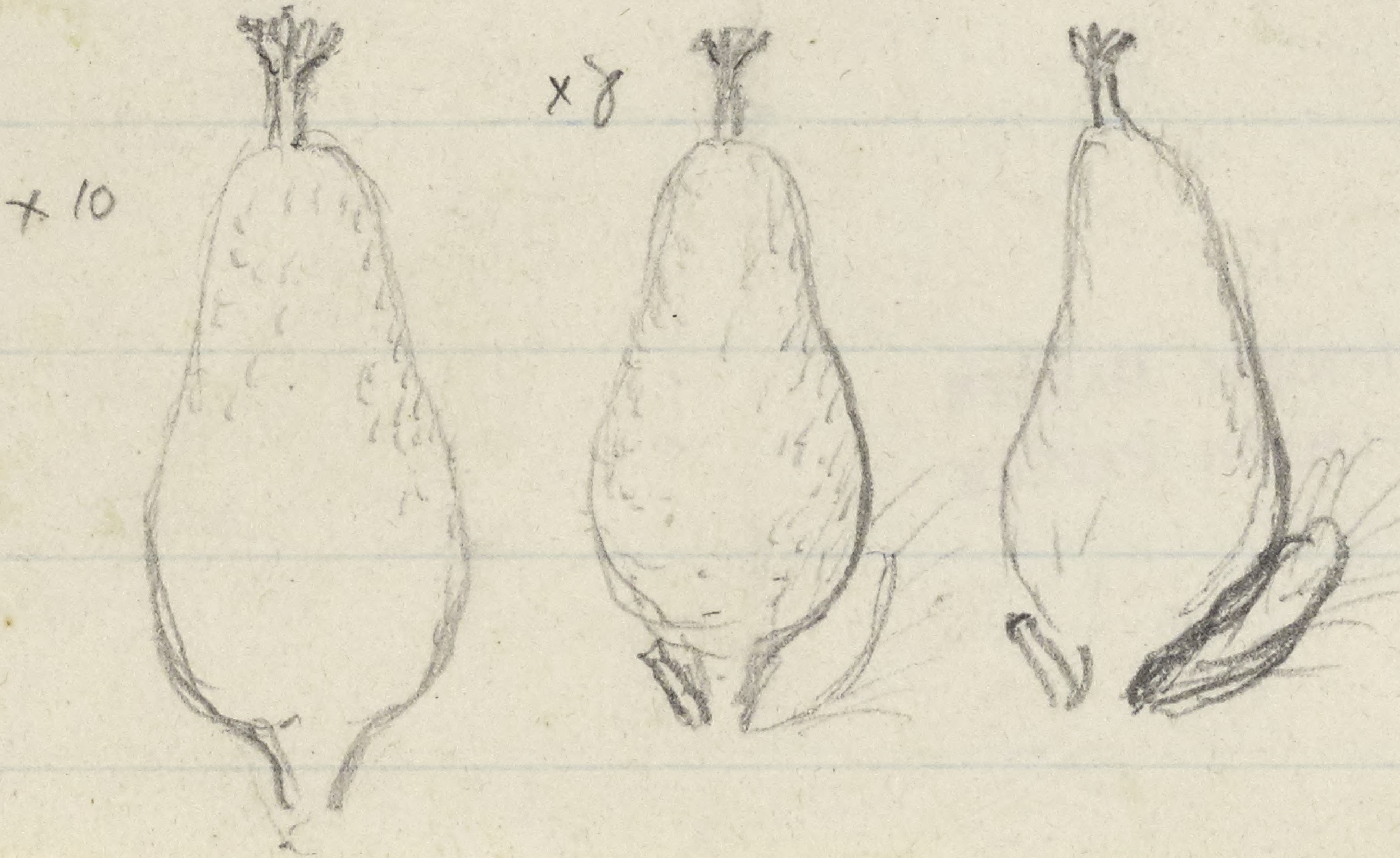
MISSOURI BOTANICAL GARDEN



Salix No 6
Com bush in ~~wet~~ meadows near Hot Sulphur Spr
Aug 2 1881

Middle Park Colo

Salix desertorum Richardson
(typical form.

5806

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MISSOURI
BOTANICAL
GARDEN

55	phylicifolia	L	241
54	nigricans	Sm	240
61	arbuscula	L	~~313~~ 247
53	repens	L	237
23	fragilis	L	209
23×	viridis	Fr	210
21	pentandra	L	206
17.	triandra	L	202
17×	undulata	Ehrh	204
24	alba	L	211
83	daphnoides	Vill pulchra Wimm	261
88×	Smithiana	Willd	267
88	viminalis	L	264
81	hastata	L	257
38	Caprea	L	222
44	vagans	Anders	226
37	cinerea	L	221
144	purpurea	L	306
36	aurita	L	220
136	polaris	Wahl	299
133	herbacea	L	298
140	reticulata	L	301
	alpestris	Anders	?
117	myrsinites	L	289
47×	hirtula	And.	231
47×	versifolia	Wbg	232
46	myrtilloides	L	229
112×	Amandae	And.	283
101×	Hartmaniana	And.	275
98	lanata	L	273
112×	Wichurae	And	284
107	glauca	L	280
106	Laestadiana	Hartm.	278
103	Lapponum	L	276
	Friesiana	And	?

(Fendl. 813. 814
Wright 667. 668. 1827. 1874. 1875
= Salix longifolia)

F. 812 S. irrorata

Wr. 1876 nigra
1877 nigra var Wrightii
667. 668. 1827.-74.-75 longif
1873. var angustiphylla
1878 humilis var angustifolia

F 816. 19. arguta And
815 44 vagans var rostrata }
812 -85 irrorata And.
813. 14 longifolia

722 S. Cutleri Tuck = S. Uva Ursi Pursh
White Mts

Wright 1879 S. nigra
var venulosa
p 201

Rec from Prof Anders
1874

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5807

nigra Wright

spec Mex
13 Humboldtiana J.
14 Bonplandiana
31 Taxifolia
51 humilis var?
(41 Brachystachys Benth
Antioquia
Calif)